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Annual Index — 1997

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60-XX Probability theory and stochastic processes
{For additional applications, see 11Kxx,
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For numerical results, see 65U05.}

60-01 Instructional exposition (textbooks, tutorial papers, etc.)

- Bartoszyński, Robert** (with Niewiadomska-Bugaj, Magdalena) ★ Probability and statistical inference. (English summary) **97k:60001**
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Gut, Allan ★ An intermediate course in probability. (English summary) **97c:60001**
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Kovalenko, I. N. (with Kuznetsov, N. Yu.; Shurenkov, Valentin Mikhailovich) ★ Models of random processes. **97b:60001**
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Neuts, Marcel F. ★ Algorithmic probability. (English summary) **97d:60001**
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Skorokhod, A. V. see **Gikhman, I. I.** **97j:60001** and **Kovalenko, I. N.**, et al. **97b:60001**

Items with secondary classifications in 60-01

- Adams, Malcolm** (with Guillemin, Victor) ★ Measure theory and probability. (English summary) **97a:28001**
 (Aïrault, Hélène) see **Malliavin, Paul** **97f:28001a**
Applebaum, David ★ Probability and information. **97d:94001**
Balakrishnan, A. V. ★ Introduction to random processes in engineering. (English summary) **97c:93001**
 (Bell, Eric Temple) see **Laplace, Pierre-Simon** **97c:01051**
 (Emory, Frederick Lincoln) see **Laplace, Pierre-Simon** **97c:01051**
Guillemin, Victor see **Adams, Malcolm** **97a:28001**
 (Kay, Leslie) see **Malliavin, Paul** **97f:28001a** and **Letac, Gérard** **97f:28001b**
Laplace, Pierre-Simon ★ A philosophical essay on probabilities. (English summary) **97c:01051**
Letac, Gérard ★ Exercises and solutions manual for *Integration and probability* [Springer, New York, 1995] by Paul Malliavin. **97f:28001b**
 — see also **Malliavin, Paul** **97f:28001a**
Malliavin, Paul ★ Integration and probability. **97f:28001a**
 — see also **Letac, Gérard** **97f:28001b**
 (Pinsky, Mark A.) see **Malliavin, Paul** **97f:28001a**
 (Truscott, Frederick William) see **Laplace, Pierre-Simon** **97c:01051**

60-02 Research exposition (monographs, survey articles)

- Hönsler, Jörg** Coverage with uniform density in one dimension, on the circle. **97f:60002**
 — Coverage with uniform density in higher dimension. **97f:60003**
 — Coverage with nonuniform densities. **97f:60004**
 — Extension and related problems. **97f:60005**
Ventsel', A. D. ★ Курс теории случайных процессов. (Russian. Russian summary) [A course in the theory of random processes] **97g:60002**
Yeh, James J. ★ Martingales and stochastic analysis. **97j:60002**

Items with secondary classifications in 60-02

- Diaconis, Persi** (with Saloff-Coste, Laurent) Random walks on finite groups: a survey of analytic techniques. (English summary) **97k:60013**
Saloff-Coste, Laurent see **Diaconis, Persi** **97k:60013**

60-03 Historical (must also be assigned at least one classification number from Section 01)

- Doob, Joseph L.** The development of rigor in mathematical probability (1900-1950) [in *Development of mathematics 1900-1950* (Luxembourg, 1992), 157-170, Birkhäuser, Basel, 1994; MR 95i:60001].

Items with secondary classifications in 60-03

- Bachelier, Louis** ★ Le jeu, la chance et le hasard. (French) [Games and chance] **97b:01025**
 (Bell, Eric Temple) see **Laplace, Pierre-Simon** **97c:01051**
 (Emory, Frederick Lincoln) see **Laplace, Pierre-Simon** **97c:01051**
Girlich, Hans-Joachim Hausdorffs Beiträge zur Wahrscheinlichkeitstheorie. [Hausdorff's contributions to probability theory] (see **97m:01096**)
 (Hausdorff, Felix) see **Girlich, Hans-Joachim** **(97m:01096)**
Jacobsen, Martin Laplace and the origin of the Ornstein-Uhlenbeck process. (English summary) **97m:01056**
Korolyuk, V. S. The origins of probability theory in Ukraine. (English summary)

- Laplace, Pierre-Simon** ★ A philosophical essay on probabilities. (English summary) **97c:01051**
 — ★ Théorie analytique des probabilités. Vol. I. (French) [Analytic probability theory. Vol. I] **97c:01052a**
 — ★ Théorie analytique des probabilités. Vol. II. (French) [Analytic probability theory. Vol. II] **97c:01052b**
Mousnier, Norbert L'émergence d'une mathématique du probable au XVII^e siècle. (English and French summaries) [The emergence of a mathematical theory of the probable in the seventeenth century] **97a:01025**
Schneider, Ivo Die Rückführung des allgemeinen auf den Sonderfall—eine Neubetrachtung des Grenzwertsatzes für binomiale Verteilungen von Abraham de Moivre. (English summary) [Reduction of the general to the special case—a new look at Abraham de Moivre's limit theorem for binomial distributions] **97d:01014**
 (Truscott, Frederick William) see **Laplace, Pierre-Simon** **97c:01051**

60-04 Explicit machine computation and programs
(not the theory of computation or programming)

Items with secondary classifications in 60-04

- Csörgő, Sándor** (with Simons, Gordon) Precision calculation of distributions for trimmed sums. (English summary) **97b:60025**
Simons, Gordon see **Csörgő, Sándor** **97b:60025**

60-06 Proceedings, conferences, collections, etc.

- (Aldous, David) see *Random discrete structures*, **97a:60004**
 (Alfi, Attahiro S.) see *Matrix-analytic methods in stochastic models*, **97g:60003**
 (Borthakur, A. C.) see *Probability models and statistics*, **97c:60004**
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 (Ghosh, Jayanta K.) see *Stochastic processes*, **97f:60003**
 (Graham, Carl (with Kurtz, Th. G.; Méléard, Sylvie; Protter, Ph. E.; Pulvirenti, M.; Talay, Denis)) ★ Probabilistic models for nonlinear partial differential equations. **97h:60001**
 (Heyer, Herbert) see *Probability measures on groups and related structures*, **97d:60003**
 (Hochberg, Kenneth J.) see *Stochastic analysis: random fields and measure-valued processes*, **97d:60005**
 (Ikeda, Nobuyuki) see *Itô's stochastic calculus and probability theory*, **97f:60002**
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 (Kallianpur, Gopinath) see *Stochastic processes*, **97f:60003**
 (Karandikar, Rajeeva L.) see *Stochastic processes*, **97f:60003**
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Baton Rouge, LA ★ Stochastic analysis on infinite-dimensional spaces. **97d:60004**
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Itô, Kiyosi ★ Itô's stochastic calculus and probability theory. **97f:60002**
Cagliari ★ Terzo Convegno Italiano di Geometria Integrata, Probabilità Geometriche e Corpi Convessi. [Third Italian Conference on Integral Geometry, Geometric Probability Theory and Convex Bodies] **97d:60002**
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Festschrift:

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- (Balakrishnan, Narayanaswamy) see Recent advances in life-testing and reliability. 97d:62001
 (Bergelson, Vitaly) see Convergence in ergodic theory and probability. 97d:00018
 (Biroli, Marco) see Potential theory and degenerate partial differential operators. 97f:00021
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 (Funaki, Tadahisa) see Nonlinear stochastic PDEs. 97a:00031
 (Galavotti, Maria Carla) see Probability, dynamics and causality. 97m:00030
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 (Uosaki, Katsuji) see Symposium: Past, Present and Future of Stochastic Approaches. 97a:93005
 (Weron, Aleksander) see Chaos—the interplay between stochastic and deterministic behaviour. 97m:00023
 (Wolf, Marek) see Chaos—the interplay between stochastic and deterministic behaviour. 97m:00023
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 Stochastic Modelling in Innovative Manufacturing ★ Stochastic modelling in innovative manufacturing. 97f:90004

60Axx Foundations of probability theory

60A05 Axioms; other general questions

- Chrisman, Lonnie Incremental conditioning of lower and upper probabilities. (English summary) 97a:60008
 Coletti, Giulianella Coherence principles for handling qualitative and quantitative partial probabilistic assessments. (English summary) 97d:60006
 Di Maio, Maria Concetta A linearity principle for predictive inferences. (Italian. English and Italian summaries) 97b:60002
 Fishburn, Peter C. Finite linear qualitative probability. (English summary) 97b:60003
 Kadane, Joseph B. (with Wasserman, Larry) Symmetric, coherent, Choquet capacities. (English summary) 97f:60003
 Scozzafava, Romano Subjective conditional probability and coherence principles for handling partial information. (see 97d:00033)
 Wasserman, Larry see Kadane, Joseph B. 97f:60003

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- Battigalli, Pierpaolo (with Veronesi, Pietro) A note on stochastic independence without Savage-null events. (English summary) 97g:90041
 Berti, Patrizia (with Rigo, Pietro) On the existence of inferences which are consistent with a given model. (English summary) 97f:62004

- Clark, Stephen A. The random utility model with an infinite choice space. (English summary) 97a:90005
- Gilio, Angelo Algorithms for conditional probability assessments. 97c:62007
- Hájek, Alan (with Hall, Ned) The hypothesis of the conditional construal of conditional probability. 97c:03077
- Hall, Ned Back in the CCCP. 97c:03078
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- van Lambalgen, Michiel Axioms for randomness. (English summary) 97b:03039
- Rigo, Pietro see Berti, Patrizia, 97j:62004
- Veronesi, Pietro see Battigalli, Pierpaolo, 97g:90041
- Vitányi, Paul M. B. Randomness. (English summary) 97c:01032

60A10 Probabilistic measure theory {For ergodic theory, see 28Dxx and 60Fxx.}

- Balek, Vladimír (with Mizera, Ivan) On the logical independence of the identities defining the stochastic independence of random events. (English summary) 97k:60003
- Bryc, Włodzisław Conditional moment representations for dependent random variables. (English summary) 97j:60004
- Ignar, Aleksandra (with Krupa, Jan) A remark on conditional expectation and regression. (English summary) 97k:60004
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- Xiao, Xiao Nan An extension of the Bayes formula to random variables under generalized measures and function space integration. (Chinese. English and Chinese summaries)

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- Al-Najjar, Nabil Ibraheem Decomposition and characterization of risk with a continuum of random variables. (English summary) 97j:90089
- Barbanel, Julius B. Super envy-free cake division and independence of measures. (English summary) 97c:28006
- Gigante, P. On the axiomatic treatment of the (α, φ) -mean. (English and Italian summaries) 97f:26026
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- Klein, Irene (with Schachermayer, Walter) A quantitative and a dual version of the Halmos-Savage theorem with applications to mathematical finance. (English summary) 97f:90014
- Schachermayer, Walter see Klein, Irene, 97f:90014
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- Wu, Kun Further discussion on conditions for independent occurrences of random events. (Chinese. English and Chinese summaries)

60A99 None of the above, but in this section

- van den Berg, I. P. An external probability order theorem with applications. (see 97g:03065)
- Khrennikov, A. Yu. Non-Archimedean probability: frequency and axiomatics theories. (English summary) 97j:60004
- Lebedev, A. A. (with Lebedev, Vladimir Alexandrovich) A generalization of mathematical expectation for a unified description of random and indeterminate factors. (Russian. Russian summary) 97c:60006
- Lebedev, Vladimir Alexandrovich see Lebedev, A. A., 97c:60006
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- Li, Shoumei (with Ogura, Yukio) Fuzzy random variables, conditional expectations and fuzzy valued martingales. (English summary)
- Ogura, Yukio see Li, Shoumei
- Sgarro, Andrea Bodies of evidence versus simple interval probabilities. (English summary) 97m:60001
- Yue, Zhong Liang (with Li, Lu Shu) Conditional λ -independence of fuzzy events. (Chinese. English and Chinese summaries)

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- Koul, Hira L.** Asymptotics of some estimators and sequential residual empiricals in nonlinear time series. (English summary) **97c:62216**
- Koval', Yu. B.** Limiting process for integral functionals of a Wiener process on a cylinder. (English summary) **97f:60105**
- Kuelbs, J.** *see* Griffin, Philip S., **97b:60005**
- Kushner, Harold J.** (with Martins, L. Felipe) Heavy traffic analysis of a controlled multiclass queueing network via weak convergence methods. (English summary) **97g:90061**
- Lachout, Petr** A note on the goodness-of-fit test in general regression model. (English summary) **97i:62070**
- Levental, Shlomo** *see* Bae, Jongsig, **97c:60049**
- Lewis, Thomas M.** *see* Khoshnevisan, Davar, **97k:60218**
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- Mikosch, Thomas** *see* Kluppelberg, Claudia, **97e:62133**

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- Mytnik, Leonid Superprocesses in random environments. (English summary) **97h:60046**
- O'Brien, George L. (with Vervaat, Wim) Large deviation principles and loglog laws for observation processes. (English summary) **97j:60049**
- Osada, Hirofumi (with Saitoh, Toshifumi) An invariance principle for non-symmetric Markov processes and reflecting diffusions in random domains. (English summary) **97d:60128**
- Peterson, William P. (with Wein, Lawrence M.) Heavy traffic analysis of a transportation network model. (English summary) **97e:90021**
- Qin, Geng Sheng A functional central limit theorem for k nearest neighbor regression estimators. (Chinese. English and Chinese summaries) **97e:62065**
- Ratanov, N. E. On invariance principle for the stochastic wave equation. (English summary) **97m:35293**
- Rémillard, Bruno see Genest, Christian; et al., **97e:60002**
- Révész, Pál see Csáki, Endre; et al., **97a:60111** and **97f:60174**
- Römersperger, M. see Eberlein, E., **97j:62020**
- Rubinstein, B. A. A central limit theorem for conditional distributions. (English summary) **97f:60026**
- Saitoh, Toshifumi see Osada, Hirofumi, **97d:60128**
- Seilhamer, A. V. see Anisimov, Vladimir V., **97m:60070**
- Sénéor, R. see Jona-Lasinio, Giovanni, **97c:81088**
- Srinivasan, Cidambi (with Zhou, Mai) A central limit theorem for weighted and integrated martingales. (English summary) **97b:60074**
- Steinbach, Josef Variance estimation based on invariance principles. (English summary) **97c:62067**
- Stolca, Gheorghe Loi fonctionnelle pour quelques processus de dimension infinie engendrés par des opérateurs à spectres discrets. (English and French summaries) [Functional law for some infinite-dimensional processes generated by discrete spectrum operators] **97b:60007**
- State, Winfried Changepoint problems under random censorship. (English summary) **97a:62093**
- Terrin, Norma see Chan, Ngai Hang, **97b:62134**
- van der Vaart, Aad W. New Donsker classes. (English summary) **97b:60019**
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- Yoshihara, Ken-ichi ★ Weakly dependent stochastic sequences and their applications. Vol. VII. **97c:60093**
- Yu, Hao A note on strong approximation for quantile processes of strong mixing sequences. (English summary) **97j:60057**
- Zhou, Mai see Srinivasan, Cidambi, **97b:60074**
- Zitikis, Rikardas see Csörgő, Miklós, **97k:62208**
- Zoglat, Abdelhak see Dabrowski, André Robert, **97g:60043**

60F20 Zero-one laws

- Huang, Jian An A weakly symmetric 0-1 law for multi-indexed random processes. (Chinese. English and Chinese summaries)
- Tsakok, A. D. A generalization of the Borel-Cantelli lemma. (English and Italian summaries) **97f:60076**
- Items with secondary classifications in 60F20
- Byczkowski, Tomasz (with Rajput, Balram S.) Zero-one law for semigroups of measures on groups. (English summary) **97j:60013**
- Kil, Byung Mun (with Kwon, Joong-Sung) A uniform law of large numbers for product random measures. **97g:60065**
- Kwon, Joong-Sung see Kil, Byung Mun, **97g:60065**
- Rajput, Balram S. see Byczkowski, Tomasz, **97j:60013**
- Rosiński, Jan (with Samorodnitsky, Gennady) Symmetrization and concentration inequalities for multilinear forms with applications to zero-one laws for Lévy chaos. (English summary) **97k:60041**
- Samorodnitsky, Gennady see Rosiński, Jan, **97k:60041**
- Steinsaltz, David Zeno's walk: a random walk with refinements. (English summary) **97k:60194**

60F25 L^p -limit theorems

- Hong, Dug Hun (with Kim, Hye Kyung; Kim, Ju Young) A weak convergence theorem for mixingale arrays. (English summary) **97j:60060**
- On convergence in p -mean of randomly indexed partial sums and some first passage times for random variables which are dependent or non-identically distributed. (English summary) **97h:60032**
- Kim, Hye Kyung see Hong, Dug Hun; et al., **97j:60060**
- Kim, Ju Young see Hong, Dug Hun; et al., **97j:60060**

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- Adler, André (with Rosalsky, Andrew; Volodin, A. I.) A mean convergence theorem and weak law for arrays of random elements in martingale type p Banach spaces. (English summary) **97m:60007**
- Cohn, Harry On the asymptotic patterns of supercritical branching processes in varying environments. (English summary) **97j:60158**
- Goggia, Eimear An L^1 approximation for conditional expectations. (English summary) **97f:60100**
- Kaude, Thomas Skov Some regularity results in stochastic calculus and nonlinear filtering.
- Lesigne, Emmanuel On the sequence of integer parts of a good sequence for the ergodic theorem. (English summary) **97c:28039**
- Oliveira, Paulo Eduardo (with Suquet, Charles) $L^2(0, 1)$ weak convergence of the empirical process for dependent variables. (English summary) **97c:60010**

- Olofsson, Peter Branching processes with local dependencies. (English summary) **97c:60115**
- Rosalsky, Andrew see Adler, André; et al., **97m:60007**
- Sunklodas, J. On the global central limit theorem for φ -mixing random variables. (English and Lithuanian summaries) **97c:60066**
- Suquet, Charles see Oliveira, Paulo Eduardo, **97c:60010**
- Volodin, A. I. see Adler, André; et al., **97m:60007**

60F99 None of the above, but in this section

- Anisimov, Vladimir V. (with Anisimova, Z. P.; Naid'onova, G. V.) Convergence of stochastic recurrent algorithms with a random calculation time. (Ukrainian. English summary) **97k:60096**
- Anisimova, Z. P. see Anisimov, Vladimir V.; et al., **97k:60096**
- Girko, Vyacheslav L. The elliptic law: ten years later. I. (English summary) **97e:60062a**
- The elliptic law: ten years later. II. (English summary) **97e:60062b**
- (with Repin, K. Yu.) The quarter-of-circumference law. (English summary) **97m:60043**
- (with Preston, N.) Numerical and Monte Carlo verification of the first spacing law. (English summary) **97j:60061**
- Goh, William M. Y. (with Schmutz, Eric; Wimp, Jet) On some recursive triangular systems. (English summary) **97g:60052**
- Henze, Norbert (with Klein, Timo) The limit distribution of the largest interpoint distance from a symmetric Kotz sample. (English summary) **97e:60063**
- Klein, Timo see Henze, Norbert, **97e:60063**
- Naid'onova, G. V. see Anisimov, Vladimir V.; et al., **97k:60096**
- Preston, N. see Girko, Vyacheslav L., **97j:60061**
- Qi, Yong Cheng The weak law of large numbers when extreme terms are excluded from sums. (English summary) **97h:60033**
- Repin, K. Yu. see Girko, Vyacheslav L., **97m:60043**
- Schmutz, Eric see Goh, William M. Y.; et al., **97g:60052**
- Wimp, Jet see Goh, William M. Y.; et al., **97g:60052**
- Items with secondary classifications in 60F99
- Abdaimi, Y. (with Michaille, G.) Dirichlet problem associated with a random quasilinear operator in a random domain. (English and French summaries) **97e:35207**
- Akemann, G. (with Ambjørn, Jan) New universal spectral correlators. (English summary) **97j:82071**
- Ambjørn, Jan see Akemann, G., **97j:82071**
- van den Berg, I. P. An external probability order theorem with applications. (see **97g:03065**)
- Boreicha, Iouri (with Litvin, I. N.) Stability of random matrices—a numerical approach. (English summary) **97c:65224**
- Borovskikh, Yu. V. see Korolyuk, V. S., **97a:62031**
- Brandière, Odile (with Duflo, Marie) Les algorithmes stochastiques contourment-ils les pièges? (English and French summaries) [Do stochastic algorithms go around traps?] **97e:62109**
- Certains pièges pathologiques des algorithmes stochastiques. (English and French summaries) [Pathological traps of stochastic algorithms] **97e:62153**
- Brown, Timothy C. (with Xia, Ai Hua) On Stein-Chen factors for Poisson approximation. (English summary) **97a:60066**
- Drucker, Sarah (with Fodor, Imola; Fisher, Evan) On random walks and levels of the form n^a . **97f:60141**
- Duflo, Marie see Brandière, Odile, **97e:62109**
- Fisher, Evan see Drucker, Sarah; et al., **97f:60141**
- Fodor, Imola see Drucker, Sarah; et al., **97f:60141**
- Godbole, Anant P. (with Janson, Svante) Random covering designs. (English summary) **97c:05043**
- Grabner, Peter J. (with Prodinger, Helmut) Asymptotic analysis of the moments of the Cantor distribution. (English summary) **97b:60026**
- Gravereau, S. E. (with Peškir, Goran; Weber, Michel Jean Georges) The continuity principle in exponential type Orlicz spaces. **97c:28038**
- de Haan, Laurens (with Resnick, Sidney I.) Second-order regular variation and rates of convergence in extreme-value theory. (English summary) **97d:60091**
- Haussler, David (with Long, Philip M.) A generalization of Sauer's lemma. (English summary) **97b:05161**
- Janson, Svante see Godbole, Anant P., **97c:05043**
- Khorunzhi, A. M. (with Khoruzhenko, Boris A.; Pastur, L. A.) Asymptotic properties of large random matrices with independent entries. (English summary) **97j:82082**
- Khoruzhenko, Boris A. Large- N eigenvalue distribution of randomly perturbed asymmetric matrices. (English summary) **97d:82002**
- see also Khorunzhi, A. M.; et al., **97j:82082**
- Korolyuk, V. S. (with Borovskikh, Yu. V.) Normal approximation of random permanents. (Russian. English and Ukrainian summaries) **97a:62031**
- Kotelev, Peter A stochastic Navier-Stokes equation for the vorticity of a two-dimensional fluid. (English summary) **97f:60116**
- Kusuoka, Shigeto Limit theorem on option replication cost with transaction costs. (English summary) **97b:90025**
- Levit-skaya, A. A. Invariance theorems for a class of nonlinear systems of equations over an arbitrary finite field. (Russian. English and Ukrainian summaries) **97f:11086**
- Litvin, I. N. see Boreicha, Iouri, **97c:65224**
- Liu, Wen (with Wang, Zhong Zhi) An extension of a theorem on gambling systems to arbitrary binary random variables. (English summary) **97a:60051**
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- Löwe, Matthias Simulated annealing with time-dependent energy function via Sobolev inequalities. (English summary) **97f:60126**
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- Michaille, G. see Abdaimi, Y., **97e:35207**

- Minlos, R. A.** (with Zhizhina, E. A.) The limiting theorems for a random walk of two particles on the lattice Z^d . (English summary) **97c:60240**
- Neuhauser, Claudia** A phase transition for the distribution of matching blocks. (English summary) **97c:60339**
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- Yin, Gang George** Convergence and error bounds for passive stochastic algorithms using vanishing step size. (English summary) **97b:62069**
- Zeng, Xiao Ming** The limiting properties of a class of two-dimensional probability-type operators. (Chinese. English and Chinese summaries)
- Zhizhina, E. A.** see **Minlos, R. A.**, **97c:60240**

60Gxx Stochastic processes

Items with secondary classifications in 60Gxx

- Gikhman, Il. I.** (with Skorokhod, A. V.) ★ Introduction to the theory of random processes. (English summary) **97j:60001**
- (Hirsch, Warren M.) see **Gikhman, Il. I.**, **97j:60001**
- Skorokhod, A. V.** see **Gikhman, Il. I.**, **97j:60001**

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- Pelkır, Goran** On separability of families of reversed submartingales. (English summary) **97a:60055**
- Rao, Malempati Madhusudana** ★ Stochastic processes: general theory. (English summary) **97c:60092**
- Rosiński, Jan** (with Żak, Tomasz) The equivalence of ergodicity of weak mixing for infinitely divisible processes. (English summary) **97m:60044**
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- Thorisson, Hermann** Transforming random elements and shifting random fields. (English summary) **97b:60046**
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- Bass, Richard F.** The Doob-Meyer decomposition revisited. (English summary) **97b:60075**
- Candeloro, D.** (with Martellotti, A.) Stochastic processes and applications to countably additive restrictions of group-valued finitely additive measures. (English summary) **97j:28025**
- Klein, Irene** (with Schachermayer, Walter) A quantitative and a dual version of the Halmos-Savage theorem with applications to mathematical finance. (English summary) **97f:90014**
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- Vladimírskij, Yu. N.** Equimeasurable sets and cylindrical measures. (Russian. Russian summary) **97g:60006**

60G07 General theory of processes

- Albeverio, Sergio** (with Ma, Zhi Ming; Röckner, Michael) A remark on the support of càdlàg processes. (English summary) **97j:60062**
- Bao, Yu Fang** (with Zhuang, Xing Wu) The characterization of two classes of N -parameter σ -filtrations. (Chinese. English and Chinese summaries) **97c:60094**
- Feldman, Jacob** ε -close measures producing nonisomorphic filtrations. (English summary) **97g:60108**
- Jeulin, T.** Filtrations, sous-filtrations: propriétés élémentaires. (French summary) [Elementary properties of filtrations and subfiltrations] **97k:60098**
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- Dubins, Lester** (with Feldman, Jacob; Smorodinsky, Meir; Tsirelson, Boris) Decreasing sequences of σ -fields and a measure change for Brownian motion. (English summary) **97g:60106**
- Feldman, Jacob** (with Tsirelson, Boris) Decreasing sequences of σ -fields and a measure change for Brownian motion. II. (English summary) **97g:60107**
- see also **Dubins, Lester**; et al., **97g:60106**
- Kramkov, D. O.** Optional decomposition of supermartingales and hedging contingent claims in incomplete security markets. (English summary) **97b:60044**
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- Tsirelson, Boris** see **Dubins, Lester**; et al., **97g:60106** and **Feldman, Jacob**, **97g:60107**

60G09 Exchangeability

- Gharib, Mohamed** On the fourth moment of the maximum of partial sums of n -exchangeable random variables with applications. (English summary) **97f:60077**
- Guedin, A. V.** On a class of exchangeable sequences. (English summary) **97d:60068**
- Hu, Tien-Chung** On pairwise independent and independent exchangeable random variables. (English summary) **97b:60034**
- Ivanoff, B. Gail** (with Weber, N. C.) Some characterizations of partial exchangeability. (English summary) **97k:60099**
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- Ding, Ke Yue** Uniform convergence of row-column exchangeable processes. (Chinese. Chinese summary) **97j:60052**
- Etemadi, Nasrollah** (with Kaminski, Marek W.) Strong law of large numbers for 2-exchangeable random variables. (English summary) **97c:60058**
- Kaminski, Marek W.** see **Etemadi, Nasrollah**, **97c:60058**
- Malric, Marc** Propriétés d'échange et fins d'ensembles optionnels. (English and French summaries) [Exchange properties and ends of optional sets] **97c:60183**
- Pitman, Jim** Random discrete distributions invariant under size-biased permutation. (English summary) **97d:62020**

60G10 Stationary processes

- Bakirov, N. K.** Comparison theorems for distribution functions of quadratic forms in Gaussian variables. (Russian. Russian summary) **97d:60069**
- Boshnakov, Georgi N.** Bartlett's formulae—closed forms and recurrent equations. (English summary) **97f:60078**
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- Cao, Xian Bing** The laws of large numbers of set-valued stationary sequences with two indices. (English and Chinese summaries) **97c:60096**
- Dąbrowski, Andrzej Robert** (with McDonald, David R.) An application of the Bernoulli part to local limit theorems for moving averages on stationary sequences. (English and French summaries) **97b:60047**
- Ėrgashev, B. A.** see **Novikov, An. A.**, **97c:60065**
- Fuller, Wayne A.** ★ Introduction to statistical time series. (English summary) **97b:60058**
- Huang, Dawei** (with Spencer, N. M.) On a random vibration model. (English summary) **97c:60064**
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- Martínez Alméida, A.** (with Rodríguez Torreblanca, C.) Spectral measures on stationary sequences. (English summary) **97j:60063**
- McDonald, David R.** see **Dąbrowski, Andrzej Robert**, **97b:60047**
- Monbet, Valérie** Franchissements de niveaux pour un processus à trajectoires régulières et estimation adaptative à partir d'observations discrétisées. (English and French summaries) [Level upcrossings for a process with regular trajectories and adaptive estimation from discretized observations] **97m:60045**
- Novikov, An. A.** (with Ėrgashev, B. A.) Limit theorems for the time of crossing a level by an autoregressive process. (Russian) **97c:60065**
- Pogány, Tibor** On certain correlation properties of the sampling cardinal series expansion of stationary stochastic processes. (English summary) **97m:60046**
- Rodríguez Torreblanca, C.** see **Martínez Alméida, A.**, **97j:60063**
- Seneta, Eugene** see **Warren, D.**, **97b:60060**
- Spencer, N. M.** see **Huang, Dawei**, **97c:60064**
- Taqqu, Murad S.** see **Kokoszka, Piotr S.**, **97b:60059**
- Warren, D.** (with Seneta, Eugene) Peaks and Eulerian numbers in a random sequence. (English summary) **97b:60060**
- Witniewski, Mateusz** On extreme-order statistics and point processes of exceedances in multivariate stationary Gaussian sequences. (English summary) **97c:60066**
- Wood, Andrew T. A.** When is a truncated covariance function on the line a covariance function on the circle? (English summary) **97b:60061**

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- Abdaimi, Y.** (with Michaille, G.) Dirichlet problem associated with a random quasilinear operator in a random domain. (English and French summaries) **97c:35207**
- Arbekov, I. M.** (with Vinokurov, V. I.; Ryazanov, B. V.) On the problem of detecting random trajectories. (Russian. Russian summary) **97c:62041**
- Bercu, Bernard** (with Gamboa, Fabrice; Rouault, Alain) Grandes déviations pour des formes quadratiques de processus gaussiens stationnaires. (English and French summaries) [Large deviations for quadratic forms of Gaussian stationary processes] **97c:60072**
- Blower, G.** Stationary processes for translation operators. (English summary) **97g:60053**
- Bogenschütz, Thomas** Stochastic stability of equilibrium states. (English summary) **97c:58085**
- Bondesson, Lennart** (with Kristiansen, Gundorph K.; Steutel, Fred W.) Infinite divisibility of random variables and their integer parts. (English summary) **97f:60037**
- Buldygin, V. V.** (with Shportuk, V. G.) On the normalization of random fields represented by stochastic integrals over fields with independent increments. (English summary) **97m:60071**
- Properties of an empirical correlogram of a Gaussian process with square-integrable spectral density. (Russian. English and Ukrainian summaries) **97a:60054**
- Chan, Wenyaw** see **Lai, Dejian**, **97b:60024**
- Cox, Dennis D.** see **Kim, Tae Yoon**, **97f:62145**
- Dorogovtsev, A. A.** Stochastic analysis and a minimization problem. (Russian. English and Ukrainian summaries) **97b:60003**
- Franco, Christian** (with Zakoian, Jean-Michel) Estimation de représentations ARMA faibles sous hypothèses de mélange. (English and French summaries) [Estimating weak ARMA representations under mixing conditions] **97c:62213**

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- Hall, Peter Gavin (with Lahiri, Soumendra Nath; Truong, Young K.) On bandwidth choice for density estimation with dependent data. (English summary) 97g:62065
- Ho, Hwai-Chung On central and non-central limit theorems in density estimation for sequences of long-range dependence. (English summary) 97f:62050
- Houdré, Christian (with Lacey, Michael T.) Spectral criteria, SLLN's and a.s. convergence of series of stationary variables. (English summary) 97k:60086
- Hsing, Tailen On the asymptotic independence of the sum and rare values of weakly dependent stationary random variables. (English summary) 97b:60033
- Hu, Yi Jun Large deviations for stationary Φ -mixing sequences in τ -topology. (English summary) 97c:60053
- Ibrahim, R. A. (with Yoon, Y.-J.) Response statistics of nonlinear systems to parametric filtered white noise. (English summary) 97c:60111
- Jayakumar, K. The stationary solution of a first order integer valued autoregressive process. (English and Italian summaries) 97f:62130
- Jing, Guang Zhu *see* Su, Jin Ling
- Kachurovskii, A. G. Spectral measures and convergence rates in the ergodic theorem. (Russian) 97k:28034
- Kakihara, Yôichirô Vector harmonizable processes: Wold and Cramér decompositions. (English summary) 97b:60062
- Kim, Tae Yoon (with Cox, Dennis D.) Bandwidth selection in kernel smoothing of time series. (English summary) 97f:62145
- Klôppelberg, Claudia (with Mikosch, Thomas) Gaussian limit fields for the integrated periodogram. (English summary) 97k:60094
- Kokoszka, Piotr S. Prediction of infinite variance fractional ARIMA. (English summary) 97f:62155
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- Lee, Chanho Some necessary conditions for ergodicity of nonlinear first order autoregressive models. 97f:60124
- Li, Yue *see* Zhang, Wen Xiu; et al.
- Lin, Zheng Yan On large increments of infinite series of Ornstein-Uhlenbeck processes. (English summary) 97c:60101
- Malliavin, Paul Factorisation de Wiener-Akutowicz-Helson-Lowdenslager-Masani et décomposition de Borel-Weil sur des groupes de lacets mesurés. [Wiener-Akutowicz-Helson-Lowdenslager-Masani factorization and Borel-Weil decomposition on measured loop groups] 97c:60146
- Marton, Katalin (with Shields, Paul C.) Correction: "Entropy and the consistent estimation of joint distributions" [Ann. Probab. 22 (1994), no. 2, 960-977; MR 95g:94004]. (English summary) 97c:94004
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- The rate of convergence of oscillation modulus for product-limit processes under random censorship. (English summary) 97k:62107

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- Hochberg, Kenneth J. (with Mądrecki, Andrzej) Itô formulas for higher-order asymptotically stable motions and applications. (English summary) 97h:60038
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- Xiao, Yi Min (with Lin, Huo Nan) Dimension properties of sample paths of self-similar processes. (English summary) 97h:60039

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- Gamert, Nina Large deviation principles for random fields on a binary tree. (English and French summaries) (see 97c:60004)
- Gripenberg, Gustaf (with Norros, Ilkka) On the prediction of fractional Brownian motion. (English summary) 97a:60058
- Hall, Peter Gavin *see* Chan, Grace; et al., 97c:62211
- Ho, Hwai-Chung On central and non-central limit theorems in density estimation for sequences of long-range dependence. (English summary) 97j:62050
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- Khoshnevisan, Davar (with Lewis, Thomas M.) Chung's law of the iterated logarithm for iterated Brownian motion. (English and French summaries) 97k:60218
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- Lewis, Thomas M. *see* Khoshnevisan, Davar, 97k:60218
- Liu, Lu Qin *see* Xiao, Yi Min, 97h:60087 and 97m:60106
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- Xiao, Yi Min (with Liu, Lu Qin) Results on the packing dimension for a class of Lévy processes and self-similar Markov processes. (Chinese. Chinese summary) 97m:60106
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- Yorke, James A. *see* Chin, Wai; et al., 97j:28044

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- Doku, Isamu (with Kuo, Hui-Hsiung; Lee, Yuh Jia) Fourier transform and heat equation in white noise analysis. 97k:60109
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- A connection between the theory of hypergroups and white noise analysis. (English summary) 97d:46078
- Bojdecki, Tomasz (with Gorostiza, Luis G.) Self-intersection local time for Gaussian $\mathcal{S}'(\mathbb{R}^d)$ -processes: existence, path continuity and examples. (English summary) 97c:60068
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- Francois, Joseph M.** (with Meiri, A. Zvi; Porat, Boaz) A Wold-like decomposition of two-dimensional discrete homogeneous random fields. (English summary) **97a:60069**
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60G30 Continuity and singularity of induced measures

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- Yang, Xin Jian** Mutual singularity in a class of orthogonal Gaussian random fields. (Chinese. English and Chinese summaries)
- Zakai, Moshe** see Üstünel, Ali Süleyman, **97a:60060** and **97g:60057**

Items with secondary classifications in 60G30

- Butov, A. A.** Some problems in the statistics of random environments with observable birth and death processes. (Russian) **97d:62192**
- Goggin, Eimear An L** approximation for conditional expectations. (English summary) **97f:60100**
- Inoue, Kazuyuki** Admissible perturbations of processes with independent increments. (English summary) **97h:60086**
- Koukiou, F.** Random measures on trees and thermodynamic formalism. (English and French summaries) (see **97f:60004**)
- Lebowitz, Joel L.** (with Rost, Hermann) The Einstein relation for the displacement of a test particle in a random environment. (English summary) **97b:60171**
- Malric, Marc** Propriétés d'échange et fins d'ensembles optionnels. (English and French summaries) [Exchange properties and ends of optional sets] **97c:60183**
- Peres, Yuval** (with Solomyak, Boris) Absolute continuity of Bernoulli convolutions, a simple proof. (English summary) **97f:28006**
- Phelan, Michael J.** A Girsanov transformation for birth and death on a Brownian flow. (English summary) **97f:60152**
- Rost, Hermann** see Lebowitz, Joel L., **97b:60171**
- Smolyanov, O. G.** (with von Weizsäcker, Heinrich) Change of measures and their logarithmic derivatives under smooth transformations. (English and French summaries) **97h:60007**
- Solomyak, Boris** see Peres, Yuval, **97f:28006**
- von Weizsäcker, Heinrich** see Smolyanov, O. G., **97h:60007**

60G35 Applications (signal detection, filtering, etc.) [see also 62M20, 93E10, 93E11, 94Axx]

- Bhatt, Abhay G.** (with Kallianpur, Gopinath; Karandikar, Rajeeva L.) Uniqueness and robustness of solution of measure-valued equations of nonlinear filtering. (English summary) **97a:60061**
- Budhiraja, A.** (with Kallianpur, Gopinath) Approximations to the solution of the Zakai equation using multiple Wiener and Stratonovich integral expansions. (English summary) **97d:60077**
- Del Moral, Pierre** Non-linear filtering using random particles. (Russian summary) **97g:60058**
- Estrade, A.** (with Pontier, Monique; Florchinger, Patrick) Filtrage avec observation discontinue sur une variété. Existence d'une densité régulière. (English summary) [Filtering with discontinuous observation on a manifold. Existence of a regular density] **97c:60109**
- Fan, Kaisheng** On a new approach to the solution of the nonlinear filtering equation of jump processes. (English summary) **97c:60110**
- Florchinger, Patrick** see Estrade, A.; et al. **97c:60109**
- Hermoso Carazo, A.** (with Linares Pérez, J.) Recursive formulas for the optimal filter of stochastic evolution equations modeled by Hilbertian martingales. (English summary) **97j:60074**
- Hobbs, Stephen L.** (with Sritharan, S. S.) Nonlinear filtering theory for stochastic reaction-diffusion equations. (English summary) **97k:60118**
- Kallianpur, Gopinath** see Bhatt, Abhay G.; et al. **97a:60061** and **Budhiraja, A.** **97d:60077**
- Karandikar, Rajeeva L.** see Bhatt, Abhay G.; et al. **97a:60061**
- Kleptsyna, M. L.** (with Serebrovskii, A. P.) The averaging principle in nonlinear filtering problems with rapidly oscillating noise. (Russian. Russian summary) **97m:60057**
- Kouritzin, Michael A.** Inductive methods and rates of r th-mean convergence in adaptive filtering. (English summary) **97k:60119**
- Kunita, Hiroshi** Representation and stability of nonlinear filters associated with Gaussian noises. (English summary) **97m:60058**
- Linares Pérez, J.** see Hermoso Carazo, A. **97j:60074**
- Ocone, Daniel** (with Pardoux, Etienne) Asymptotic stability of the optimal filter with respect to its initial condition. (English summary) **97c:60073**
- Pardoux, Etienne** see Ocone, Daniel. **97c:60073**
- Pontier, Monique** see Estrade, A.; et al. **97c:60109**
- Rao, Zusheng** Filtrage d'une diffusion réfléchie à sauts, observée à travers un processus ponctuel marqué. (English summary) [Filtering of a reflected diffusion with jumps observed via a marked point process] **97a:60062**
- Serebrovskii, A. P.** see Kleptsyna, M. L. **97m:60057**
- Sidorov, M. V.-S.** see Voïna, A. A. **97b:60040**
- Sritharan, S. S.** Nonlinear filtering of stochastic Navier-Stokes equation. (English summary) **97i:60052**
- see also Hobbs, Stephen L. **97k:60118**
- Voïna, A. A.** (with Sidorov, M. V.-S.) Equations of optimal nonlinear filtration and interpolation for partially observed Markov processes. (English summary) **97b:60040**
- Volgin, L. N.** Diophantine solution of Wiener's problem. (Russian. Russian summary)
- Xiao, Xiao Nan** Optimal estimation and stochastic analysis of a class of partially observable nonstationary diffusion processes. (Chinese. English and Chinese summaries)
- Items with secondary classifications in 60G35**
- Abakumova, O. L.** (with Demin, N. S.; Sushko, T. V.) Filtering of stochastic processes from a set of continuous and discrete observations with memory. I. Fundamental equation of nonlinear filtering. (Russian. Russian summary) **97c:93082**
- (with Demin, N. S.; Sushko, T. V.) Filtering of stochastic processes from a set of continuous and discrete observations with memory. II. Synthesis of filters. (Russian. Russian summary) **97c:93083**
- Ahmed, Nasir Uddin** (with Fuhrman, Marco; Zabczyk, Jerzy) On filtering equations in infinite dimensions. (English summary) **97k:93064**
- Bashirov, A. È.** Linear filtering under dependent white and wide-band noise. (Russian) **97b:93088**
- Belitser, E. N.** (with Levit, B. Ya.) On minimax filtering over ellipsoids. (English summary) **97d:93085**
- Benth, Fred Espen** An explicit functional process solution to a stochastic partial differential equation with applications to nonlinear filtering. (English summary) **97a:60081**
- Brigo, Damiano** New results on the Gaussian projection filter with small observation noise. (English summary) **97c:93040**
- Budhiraja, A.** (with Kallianpur, Gopinath) The Feynman-Stratonovich semigroup and Stratonovich integral expansions in nonlinear filtering. (English summary) **97i:60069**
- Buldygin, V. V.** (with Fu-Li) Asymptotic properties of estimates of impulse transfer functions of linear systems. (Russian. English summary) **97d:93083**
- Calzolari, A.** (with Nappo, G.) A filtering problem with counting observations: approximation with error bounds. (English summary) **97c:93041**
- Carravetta, Francesco** (with Germani, Alfredo; Raimondi, Massimo) Polynomial filtering for linear discrete time non-Gaussian systems. (English summary) **97c:93042**
- Demin, N. S.** see Abakumova, O. L.; et al. **97c:93082** and **97c:93083**
- Ferrante, Marco** (with Giummolé, Federica) Finite-dimensional filters for a discrete-time nonlinear system with generalized Gaussian white noise. (English summary) **97c:93043**
- Fritsch, H.** Time discretization of a setvalued stochastic dynamic system. (English summary) **97c:49031**
- Fuhrman, Marco** see Ahmed, Nasir Uddin; et al. **97k:93064**
- Fu-Li** see Buldygin, V. V. **97d:93083**
- Germani, Alfredo** see Carravetta, Francesco; et al. **97c:93042**
- Giummolé, Federica** see Ferrante, Marco. **97c:93043**
- Huang, Dawei** (with Spencer, N. M.) On a random vibration model. (English summary) **97c:60064**
- Istas, Jacques** (with Laredo, Catherine) Estimating functionals of a stochastic process. (English summary) **97m:60047**
- Kallianpur, Gopinath** see Budhiraja, A. **97i:60069**
- Knudsen, Thomas Skov** Some regularity results in stochastic calculus and nonlinear

filtering.

- Krasil'shchikov, M. N.** see Zonov, N. I. **97g:93076**
- Laredo, Catherine** see Istas, Jacques. **97m:60047**
- Lee, P. C.** see Reed, Irving S.; et al. **97b:94007**
- Levit, B. Ya.** see Belitser, E. N. **97d:93085**
- Lo, James Ting-Ho** (with Sanders, Melvin J.; Ng, Sze-Kui) Polynomial networks for optimal nonlinear filtering. (English summary) (see **97a:00029**)
- Maksarov, D. G.** Filtering of random processes described by Volterra integral equations of the second kind. (Russian. Russian summary) **97k:93066**
- Maybank, Stephen** Finite-dimensional filters. (English summary) **97b:93089**
- Miller, B. M.** (with Rubinovich, E. Ya.) Regularization of a generalized Kalman filter. (English summary) **97b:93090**
- Nappo, G.** see Calzolari, A. **97c:93041**
- Ng, Sze-Kui** see Lo, James Ting-Ho; et al. **97a:00029**
- Raimondi, Massimo** see Carravetta, Francesco; et al. **97c:93042**
- Reed, Irving S.** (with Lee, P. C.; Truong, T. K.) Spectral representation of fractional Brownian motion in n dimensions and its properties. (English summary) **97b:94007**
- Rubinovich, E. Ya.** see Miller, B. M. **97b:93090**
- Sand, Jan-Ake** Reciprocal realizations on the circle. (English summary) **97j:93012**
- Sanders, Melvin J.** see Lo, James Ting-Ho; et al. **97a:00029**
- Sinitsyn, I. N.** Conditionally optimal filtering and recognition of signals in stochastic differential systems. (Russian. Russian summary) **97m:93072**
- Spencer, N. M.** see Huang, Dawei. **97c:60064**
- Sushko, T. V.** see Abakumova, O. L.; et al. **97c:93082** and **97c:93083**
- Truong, T. K.** see Reed, Irving S.; et al. **97b:94007**
- Yau, Shing-Tung** (with Yau, Stephen S.-T.) Explicit solution of a Kolmogorov equation. (English summary) **97i:35082**
- Yau, Stephen S.-T.** see Yau, Shing-Tung. **97i:35082**
- Zabczyk, Jerzy** see Ahmed, Nasir Uddin; et al. **97k:93064**
- Zonov, N. I.** (with Krasil'shchikov, M. N.) A system of recurrent Bayesian estimation algorithms that are adaptive to different kinds of uncontrollable factors. II. Algorithms for determining the statistical characteristics of the errors of models of the process being estimated. (Russian. Russian summary) **97g:93076**

60G40 Stopping times; optimal stopping problems; gambling theory [see also 62L15, 90D60]

- Aho, Katsunori** Optimizing multiple selections with sequential observations. (English summary) **97c:60111**
- (with Tamaki, Mitsushi; Hu, MuCi) A secretary problem with uncertain employment when the number of offers is restricted. (English summary) **97c:60074**
- Arunachalam, Viswanathan** see Rangan, A.; et al. **97d:60081**
- Asaf, David** (with Samuel-Cahn, Ester) The secretary problem: minimizing the expected rank with i.i.d. random variables. (English summary) **97f:60089**
- Bikhchandani, Sushil** (with Sharma, Sunil) Optimal search with learning. (English summary) **97c:60120**
- Boshuizen, Frans A.** Prophet compared to gambler: additive inequalities for transforms of sequences of random variables. (English summary) **97k:60121**
- Cairolì, R.** (with Dalang, Robert C.) Optimal switching between two random walks. (English summary) **97c:60053**
- (with Dalang, Robert C.) ★ Sequential stochastic optimization. (English summary) **97d:60078**
- Chen, Hui Chan** see Zhao, Jin Zhou; et al.
- Cheng, Ping** see Zhu, Li-Xing; et al. **97i:60055**
- Dalang, Robert C.** see Cairolì, R. **97d:60078** and **97i:60053**
- Dechviri, V. M.** Optimal stopping of a homogeneous nonterminating standard Markov process on a finite time interval. (Russian) **97k:60122**
- Gnedin, A. V.** (with Krengel, Ulrich) Optimal selection problems based on exchangeable trials. (English summary) **97c:60075**
- Harten, Friedrich** ★ Prophetenregionen bei zeitlichen Bewertungen im unabhängigen und im iid-Fall. (German) [Prophet regions for time evaluations in the independent and the i.i.d. case] **97j:60075**
- Hu, Bijin** Semimartingales and their critical stopping times. (English and Chinese summaries) **97k:60123**
- Hu, MuCi** see Aho, Katsunori; et al. **97c:60074**
- Irie, A.** Asymptotically optimal stopping rules in the presence of unknown parameters. (English summary) **97k:60124**
- Ivković, Zoran A.** A stochastic measure and nonlinear approximation of some random fields. (English summary) **97d:60079**
- Kadota, Yoshinobu** (with Kurano, Masami; Yasuda, Masami) Utility-optimal stopping in a denumerable Markov chain. (English summary) **97d:60080**
- Konurbaeva, B. M.** On an optimal stopping problem. (Russian. English, Russian and Kazakh summaries) **97k:60125**
- Krengel, Ulrich** see Gnedin, A. V. **97c:60075**
- Kurano, Masami** see Kadota, Yoshinobu; et al. **97d:60080**
- Lai, Tze Leung** see de la Peña, Victor H. **97c:60076**
- Law, J. S.** see Quine, M. P. **97k:60127**
- Lee, Sheu-Ming** (with Yeh, Tzu-Sheng) Approximations to optimal stopping rules for gamma random variables with unknown scale parameter. (English summary) **97j:60076**
- Li, Ya** see Luo, Jian Shu
- Lao, Jian Shu** (with Li, Ya) Secretary problems with payoff in inverse ratio to the absolute rank. (Chinese. English and Chinese summaries)
- Majumdar, Abdullah-Al-Kafi** A best-choice problem with three stops and random termination. (English summary) **97f:60090**
- Mazalov, Vladimir V.** A game related to optimal stopping of two sequences of independent random variables having different distributions. (English summary) **97c:60112**
- Ohtsubo, Yoshio** Core in a cooperative Dynkin's stopping problem. (English summary) **97i:60054**
- Mult-objective stopping problem for a monotone case. (English summary) **97k:60126**

- de la Peña, Victor H. (with Lai, Tze Leung) Wald's equation and asymptotic bias of randomly stopped U -statistics. (English summary) **97c:60076**
- Pelkier, Goran On the exponential Orlicz norms of stopped Brownian motion. (English summary) **97b:60073**
- Pötzberger, Klaus see Wang, Lijun, **97b:60042**
- Quine, M. P. (with Law, J. S.) Exact results for a secretary problem. (English summary) **97k:60127**
- Rangan, A. (with Sarada, G.; Arunachalam, Viswanathan) Optimal stopping in a shock model. (English summary) **97d:60081**
- Rotter, Markus A best possible improvement of Wald's equation for stochastic processes. (English summary) **97b:60041**
- Samuel-Cahn, Ester Optimal stopping with random horizon with application to the full-information best-choice problem with random freeze. (English summary) **97c:60077**
— see also Assaf, David, **97f:60089**
- Sarada, G. see Rangan, A.; et al., **97d:60081**
- Sharma, Sunil see Bikhchandani, Sushil, **97k:60120**
- Shi, Pei-De see Zhu, Li-Xing; et al., **97f:60055**
- Tamaki, Mitsushi see Aino, Katsunori; et al., **97c:60074**
- Vanderbei, Robert J. A probabilistic formula for the concave hull of a function. (English summary) **97c:60078**
- Wang, Lijun (with Pötzberger, Klaus) Boundary crossing probability for Brownian motion and general boundaries. (English summary) **97b:60042**
- Wei, Gang see Zhu, Li-Xing; et al., **97f:60055**
- Wittmann, Rainer Prophet inequalities for dependent random variables. (English summary) **97a:60063**
— Superprophet inequalities for independent random variables. (English summary) **97k:60128**
- Yasuda, Masami see Kadota, Yoshinobu; et al., **97d:60080**
- Yeh, Tzu-Sheng see Lee, Shen-Ming, **97f:60076**
- Yeo, Anders (with Yeo, Geoffrey F.) Selecting satisfactory secretaries. (English summary) **97a:60064**
- Yeo, Geoffrey F. see Yeo, Anders, **97a:60064**
- Zhang, Zhuo Kui see Zhao, Jin Zhou; et al.
- Zhao, Jin Zhou (with Chen, Hui Chan; Zhang, Zhuo Kui) Stopping theorems for stopping lines. (Chinese. English summary)
- Zhu, Li-Xing (with Cheng, Ping¹; Wei, Gang; Shi, Pei-De) A stopping time concerning sphere data and its applications. (English summary) **97f:60055**

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- Banjeric, Dragan Recursive relations for the distribution of waiting times in a Markov chain. (English summary) **97b:60010**
- Bather, John Poisson search models and the evaluation of stopping rules. (English summary) **97c:62192**
- Browne, Sid (with Whitt, Ward) Portfolio choice and the Bayesian Kelly criterion. (English summary) **97j:90009**
- Chang, Zhi Hua The general stopping time changes of right processes. (Chinese. English and Chinese summaries) **97f:60162**
- Chassaigne, Philippe Determining the majority: the biased case. (English summary) **97m:68157**
- Choi, K. P. (with Klass, Michael J.) Some best possible prophet inequalities for convex functions of sums of independent variates and unordered martingale difference sequences. (English summary) **97k:60046**
- Cvitanić, Jakša (with Karatzas, Ioannis) Backward stochastic differential equations with reflection and Dynkin games. (English summary) **97h:93080**
- Ebrahimi, Nader see Ramalingam, T., **97k:62117**
- Fristedt, Bert (with Lapić, Stephan; Sudderth, William D.) The big match on the integers. (English summary) **97c:90117**
- Gut, Allan Stopped Lévy processes with applications to first passage times. (English summary) **97g:60095**
- Hong, Dug Hun On convergence in p -mean of randomly indexed partial sums and some first passage times for random variables which are dependent or non-identically distributed. (English summary) **97b:60032**
- Kabanov, Yu. M. see Shiryaev, A. N.; et al., **97c:90008** and **97c:90009**
- Kallianpur, Gopinath (with Oleinik, Olga Arsen'evna) On problems with a free boundary that arise in probability theory (existence theorems). (Russian)
- Karatzas, Ioannis see Cvitanic, Jakša, **97h:93080**
- Kesten, Harry (with Maller, Ross A.) Two renewal theorems for general random walks tending to infinity. (English summary) **97f:60113**
- Klass, Michael J. see Choi, K. P., **97k:60046**
- Kramkov, D. O. see Shiryaev, A. N.; et al., **97c:90008** and **97c:90009**
- Krupa, Grzegorz (with Zięba, Wiesław) Strong tightness as a condition of weak and almost sure convergence. (English summary) **97m:60002**
- Lapić, Stephan see Fristedt, Bert; et al., **97f:90117**
- Lotov, V. I. On some boundary crossing problems for Gaussian random walks. (English summary) **97k:60191**
- Maller, Ross A. see Kesten, Harry, **97f:60113**
- Mazalov, Vladimir V. The solution of the Russian black jack. **97g:90179**
— Game with optimal stopping of random walks. **97g:93072**
- McBeth, Douglas W. (with Weerasinghe, Ananda P. N.) Finite-time optimal control of a process leaving an interval. (English summary) **97c:93038**
- Mel'nikov, A. V. see Shiryaev, A. N.; et al., **97c:90008** and **97c:90009**
- Menaldi, José Luis (with Robin, Maurice; Sun, Min) Optimal starting-stopping problems for Markov-Feller processes. (English summary) **97c:60184**
- Ohtsubo, Yoshio Pareto optimum in a cooperative Dynkin's problem with a constraint. **97f:90130**
- Øksendal, Bernt ★ Stochastic differential equations. **97f:60114**
- Oleinik, Olga Arsen'evna see Kallianpur, Gopinath
- Pavlyukevich, I. E. On the computation of the probability characteristics of some optimal stopping times. (Russian)
- Ramalingam, T. (with Ebrahimi, Nader) Testing for independence between hitting times of bivariate PQD processes. (English summary) **97k:62117**
- Robin, Maurice see Menaldi, José Luis; et al., **97c:60184**
- Ross, Sheldon M. Extending Blackwell's strengthening of Azuma's martingale inequality. (English summary) **97d:60082**
- Shepp, Larry (with Shiryaev, A. N.) A new look at the "Russian option". (Russian. Russian summary) **97c:90007**
- Shiryaev, A. N. (with Kabanov, Yu. M.; Kramkov, D. O.; Mel'nikov, A. V.) Toward a theory of pricing options of European and American types. I. Discrete time. (Russian. Russian summary) **97c:90008**
— (with Kabanov, Yu. M.; Kramkov, D. O.; Mel'nikov, A. V.) Toward a theory of pricing options of European and American types. II. Continuous time. (Russian. Russian summary) **97c:90009**
— see also Shepp, Larry, **97c:90007**
- Sudderth, William D. see Fristedt, Bert; et al., **97f:90117**
- Sun, Min see Menaldi, José Luis; et al., **97c:60184**
- Weerasinghe, Ananda P. N. see McBeth, Douglas W., **97c:93038**
- Whitt, Ward see Browne, Sid, **97j:90009**
- Zięba, Wiesław see Krupa, Grzegorz, **97m:60002**

60G42 Martingales with discrete parameter

- Aspandiarov, Sanjar (with Iasnogorodski, R.; Menshikov, M. V.) Passage-time moments for nonnegative stochastic processes and an application to reflected random walks in a quadrant. (English summary) **97m:60064**
- Chao, J.-A. (with Peng, Lihong) Schatten classes and commutators on simple martingales. **97j:60077**
- Chashka, A. A. On fluctuations in the trajectory of a bounded martingale. (English summary) **97c:60079**
- Dekking, F. M. An inequality for pairs of martingales and its application to fractal image coding. (English summary) **97c:60080**
- Egorov, V. A. Dependence of the growth rate of a martingale on the growth rate of martingale differences. (Russian. Russian summary) **97c:60113**
- Iasnogorodski, R. see Aspandiarov, Sanjar; et al., **97m:60064**
- Kartashova, S. S. A generalization of Garsia's inequality to two-parameter supermartingales. (English summary) **97m:60059**
- Li, Bing¹ Unconditional martingale difference operators. (Chinese. Chinese summary) **97c:60081**
- Long, Rui Lin On martingale spaces and inequalities. **97c:60114**
- Menshikov, M. V. see Aspandiarov, Sanjar; et al., **97m:60064**
- Mok, Jinsik On best constants in some weak-type inequalities. (English summary) **97b:60043**
- Peng, Lihong see Chao, J.-A., **97j:60077**
- Ross, Sheldon M. Extending Blackwell's strengthening of Azuma's martingale inequality. (English summary) **97d:60082**
- Srinivasan, Cidambi (with Zhou, Mai) A central limit theorem for weighted and integrated martingales. (English summary) **97b:60074**
- Tozoni, Sergio Antonio Vector-valued extensions of operators on martingales. (English summary) **97j:60078**
- Weisz, Ferenc An extension of an inequality due to Stein and Lepingle. **97k:60129**
- Zhou, Mai see Srinivasan, Cidambi, **97b:60074**

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- Aspnes, James (with Waarts, Orli) Randomized consensus in expected $O(n \log^2 n)$ operations per processor. (English summary) **97g:68081**
- Bae, Jongsig An empirical LIL for stationary martingale differences: an invariance principle approach. **97m:60039**
- Benaim, Michel (with Hirsch, Morris W.) Dynamics of Morse-Smale urn processes. (English summary) **97f:62138**
- Chaabane, Faouzi Version forte du théorème de la limite centrale fonctionnel pour les martingales. (English and French summaries) [Strong version of the functional central limit theorem for martingales] **97d:60057**
- Choi, K. P. (with Klass, Michael J.) Some best possible prophet inequalities for convex functions of sums of independent variates and unordered martingale difference sequences. (English summary) **97k:60046**
- Dembo, Amir Moderate deviations for martingales with bounded jumps. (English summary) **97k:60077**
- Dion, J.-P. (with Yanev, N. M.) CLT for martingales in BGWR branching processes with some statistical applications. **97b:60143**
- Gao, Shi Xin The Hajek-Rényi inequality for Banach space valued martingales and the p smoothness of Banach spaces. (English summary) **97k:60006**
- Giné-Masdeu, Evarist (with Zhang, Cun-Hui) On integrability in the LIL for degenerate U -statistics. (English summary) **97j:60054**
- Giotto, Bruno (with Ortu, Fulvio) Existence of equivalent martingale measures in finite-dimensional securities markets. (English summary) **97g:90023**
- Gushchin, A. A. On the convergence of sequences of semi-martingales and their components. (Russian) **97d:60066**
- Hirsch, Morris W. see Benaim, Michel, **97f:62138**
- Hong, Dug Hun (with Lee, Sungho) A general weak law of large numbers for arrays. (English summary) **97k:60064**
— On convergence in p -mean of randomly indexed partial sums and some first passage times for random variables which are dependent or non-identically distributed. (English summary) **97b:60032**
- Kabanov, Yu. M. see Shiryaev, A. N.; et al., **97c:90008**
- Klass, Michael J. see Choi, K. P., **97k:60046**
- Kouklou, F. Random measures on trees and thermodynamic formalism. (English and French summaries) (see **97f:60004**)
- Koval', T. L. On the accuracy of normal approximation of a weighted sum of random variables that form a two-parameter martingale difference. (English summary) **97m:60024**

- Kramkov, D. O. *see* Shiryaev, A. N.; et al., 97c:90008
- Lee, Sungbo *see* Hong, Dug Hun, 97c:60064
- Liu, Jia Kun (with Zhang, Lian Fang; Xue, Fei) The adjoint martingale of a class of semi-Markov processes and the first passage problem. (Chinese. English and Chinese summaries) 97c:60055
- Liu, Pei De *see* Wei, Wen Zhan
- Me'nikov, A. V. *see* Shiryaev, A. N.; et al., 97c:90008
- Ortu, Fulvio *see* Girotto, Bruno, 97g:90023
- Peškir, Goran On separability of families of reversed submartingales. (English summary) 97c:60055
- Pisier, Gilles (with Xu, Quanhua) Inégalités de martingales non commutatives. (English and French summaries) [Noncommutative martingale inequalities] 97c:46073
- Rogers, L. C. G. Equivalent martingale measures and no-arbitrage. (English summary) 97g:90025
- Rubinstein, B. A. A central limit theorem for conditional distributions. (English summary) 97c:60026
- Satô, Hiroshi¹ Infinite product and infinite sum. 97c:60051
- Shiryaev, A. N. (with Kabanov, Yu. M.; Kramkov, D. O.; Me'nikov, A. V.) Toward a theory of pricing options of European and American types. I. Discrete time. (Russian. Russian summary) 97c:90008
- Waarts, Orli *see* Aspin, James, 97g:68081
- Wei, Wen Zhan (with Liu, Pei De) PL-uniform convexity of complex spaces and its characterization in terms of martingales. (Chinese) 97c:42060
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- Ye, Zhi Ying (with Jin, Hai Hong) A problem of Pei De Chen on martingalization. (Chinese. Chinese summary)
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- de la Peña, Victor H. Correction to: "A bound on the moment generating function of a sum of dependent variables with an application to simple random sampling without replacement" [Ann. Inst. H. Poincaré Probab. Statist. **30** (1994), no. 2, 197–211; MR 95k:60047]. (English and French summaries) **97a:60027**
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- Okitaloshima, Odimboleko** (with van Casteren, Jan A.) On the uniqueness of the martingale problem. (English summary) **97f:60096**
- Peng, Nan Fu** Spectral representations of the transition probability matrices for continuous time finite Markov chains. (English summary) **97b:60123**
- Peng, Shi-Ge** *see* **Hu, Ying**, **97m:60108**
- Raugi, A.** *see* **Conze, J.-P.**, **97g:60097**
- Röckner, Michael** *see* **Gogachev, V. I.**; et al., **97c:60189**
- Simão, Isabel** Regularity of the heat semigroup generated by certain operators on a Hilbert space. (English summary) **97f:60161**
- Song, Ren Ming** Feynman-Kac semigroup with discontinuous additive functionals. (English summary) **97a:60106**
- Zegarliński, Bogusław** Ergodicity of Markov semigroups. (English summary) **97g:60099**

Items with secondary classifications in 60J35

- Altomare, Francesco** Approximation theory and evolution equations. (English summary) **97c:35075**
- Ben Salah, M.** (with Yahiaoui, M. S.) Subordination des résolvantes. (French summary) [Subordination of resolvents] **97c:31007**
- Beznea, Lucian** (with Boboc, Nicu) On the integral representation for excessive measures. (English summary) **97k:31012**
- Boboc, Nicu** *see* **Beznea, Lucian**, **97k:31012**
- Bomze, Immanuel M.** *see* **Bürger, Reinhard**, **97h:92008**
- Bürger, Reinhard** (with Bomze, Immanuel M.) Stationary distributions under mutation-selection balance: structure and properties. (English summary) **97h:92008**
- Da Prato, Giuseppe** (with Lunardi, Alessandra) On the Ornstein-Uhlenbeck operator in spaces of continuous functions. (English summary) **97m:47056**
- (with Zabczyk, Jerzy) ★ Ergodicity for infinite-dimensional systems. (English summary) **97k:60165**
- Fouf, V. P.** (with Lin, Michael; Rubinov, Aleksandr M.) On the uniform ergodic theorem in Banach spaces that do not contain duals. (English summary) **97f:47014**
- Fuhrman, Marco** Smoothing properties of nonlinear stochastic equations in Hilbert spaces. (English summary) **97k:60166**
- Fukushima, Masatoshi** (with Tomisaki, Matsuyo) Reflecting diffusions on Lipschitz domains with cusps—analytic construction and Skorohod representation. **97b:60137**
- Himssi, Mohamed** Potentiels et attracteurs d'un système dynamique. (English summary) [Potentials and attractors of a dynamical system] **97f:31019**
- Hochberg, Kenneth J.** (with Orsingher, Enzo) Composition of stochastic processes governed by higher-order parabolic and hyperbolic equations. (English summary) **97f:60181**
- Hoh, Walter** Feller semigroups generated by pseudo-differential operators. **97b:47043**
- Pseudodifferential operators with negative definite symbols and the martingale problem. (English summary) **97c:35225**
- (with Jacob, Niels) Upper bounds and conservativeness for semigroups associated with a class of Dirichlet forms generated by pseudo-differential operators. (English summary) **97f:31025**
- Jacob, Niels** *see* **Hoh, Walter**, **97f:31025**
- Komatsu, Takashi** Uniform estimates for fundamental solutions associated with non-local Dirichlet forms. **97d:31010**
- Lachal, Aimé** Sur la distribution de certaines fonctionnelles de l'intégrale du mouvement brownien avec dérivées parabolique et cubique. (French summary) [Distribution of certain functionals of the integral of Brownian motion with parabolic and cubic drift] **97f:60150**
- Lin, Michael** *see* **Fouf, V. P.**; et al., **97f:47014**
- Löbus, Jörg-Uwe** Generalized second order partial differential operators in analysis and probability. (English summary) **97h:35070**
- Lunardi, Alessandra** *see* **Da Prato, Giuseppe**, **97m:47056**
- Madagli, Habib** Perturbation et mesures excessives. [Perturbation and excessive measures] **97f:31013**
- Mathieu, Pierre** Spectra, exit times and long time asymptotics in the zero-white-noise limit. (English summary) **97f:60169**
- Mishura, Yu. S.** (with Tomilov, Yu. V.) Two-parameter semigroups, evolutions and their applications to Markov and diffusion fields on the plane. (English summary) **97f:60100**
- Nishioaka, Kunio** Monopoles and dipoles in biharmonic pseudo-process. **97g:60117**
- Orsingher, Enzo** *see* **Hochberg, Kenneth J.**, **97f:60181**
- Phelan, Michael J.** Birth and death on a Brownian flow: a Feller semigroup and its generator and a martingale problem. (English summary) **97f:60151**
- A Girsanov transformation for birth and death on a Brownian flow. (English summary) **97f:60152**
- Popa, Eugen** (with Popa, Liliana) Tensor product of standard H -cones and duality. (English summary) **97f:31029**
- Popa, Liliana** *see* **Popa, Eugen**, **97f:31029**
- Rubinov, Aleksandr M.** *see* **Fouf, V. P.**; et al., **97f:47014**
- Taira, Kazuaki** Boundary value problems for elliptic integro-differential operators. **97k:35049**
- Tomilov, Yu. V.** *see* **Mishura, Yu. S.**, **97f:60100**
- Tomisaki, Matsuyo** *see* **Fukushima, Masatoshi**, **97b:60137**
- Yahiaoui, M. S.** *see* **Ben Salah, M.**, **97c:31007**
- Zabczyk, Jerzy** *see* **Da Prato, Giuseppe**, **97k:60165**
- Zegarliński, Bogusław** Recent progress in the hypercontractive semigroups. (English summary) **97d:60164**

60J40 Right processes

- Chang, Zhi Hua** The general stopping time changes of right processes. (Chinese. English and Chinese summaries) **97f:60162**
- Gettoor, R. K.** (with Sharpe, M. J.) Inverse subordination of excessive functions. **97b:60124**
- Leduc, Guillaume** Martingale problem characterization for superprocesses. (English summary) **97a:60107**
- Sharpe, M. J.** *see* **Gettoor, R. K.**, **97b:60124**
- Items with secondary classifications in 60J40
- Beznea, Lucian** (with Boboc, Nicu) On the integral representation for excessive measures. (English summary) **97k:31012**
- Boboc, Nicu** *see* **Beznea, Lucian**, **97k:31012**
- Fukushima, Masatoshi** On a decomposition of additive functionals in the strict sense for a symmetric Markov process. (English summary) **97k:60210**
- Hirsch, Francis** (with Song, Shiqi) Symmetric Skorohod topology on n -variable functions and hierarchical Markov properties of n -parameter processes. (English summary) **97d:60122**
- Song, Shiqi** *see* **Hirsch, Francis**, **97d:60122**
- Ying, Jiangang** Killing and subordination. (English summary) **97a:31005**

60J45 Probabilistic potential theory [see also 31Cxx, 31D05]

- Eberle, Andreas** Girsanov-type transformations of local Dirichlet forms: an analytic approach. **97m:60110**
- Hirsch, Francis** Theory of capacity on the Wiener space. (English summary) **97f:60163**
- (with Song, Shiqi) Inequalities for Bochner's subordinates of two-parameter symmetric Markov processes. (English and French summaries) **97k:60207**
- Kuwaie, Kazuhiro** Permanent sets of measures charging no exceptional sets and the Feynman-Kac formula. (English summary) **97e:60127**
- Liu, Lu Qin** The equilibrium problem and capacity for jump Markov processes. (English summary) **97f:60164**
- *see also* **Yuan, De Mei**
- McGillivray, Ivor** A recurrence condition for some subordinated strongly local Dirichlet forms. (English summary) **97m:60111**
- Ôkura, Hiroyuki** Capacity inequalities and global properties of symmetric Dirichlet forms. (English summary) **97e:60128**
- Oshima, Yoichi** Time dependent Dirichlet forms and its application to a transformation of space-time Markov processes. (English summary) **97d:60127**
- Peres, Yuval** Remarks on intersection-equivalence and capacity-equivalence. (English and French summaries) **97f:60138**
- Quezada Batalla, Roberto** Path integral and the Schrödinger equation with time-dependent potential. **97f:60165**
- Smits, Robert G.** Necessary and sufficient conditions for finiteness of lifetime. (English summary) **97k:60208**
- Song, Shiqi** *see* **Hirsch, Francis**, **97k:60207**
- Tanaka, Hiroshi** Green operators of absorbing Lévy processes on the half line. (English summary) **97k:60209**
- Ying, Jiangang** Bivariate Revuz measures and the Feynman-Kac formula. (English summary) **97f:60139**
- Yuan, De Mei** (with Liu, Lu Qin) Invariant measures and weak duality for Markov processes of Ornstein-Uhlenbeck type. (Chinese. English and Chinese summaries)

Items with secondary classifications in 60J45

- Beznea, Lucian** (with Boboc, Nicu) On the integral representation for excessive measures. (English summary) **97k:31012**
- (with Boboc, Nicu) Quasi-boundedness and subtractivity; applications to excessive measures. (English summary) **97k:31013**
- Boboc, Nicu** *see* **Beznea, Lucian**, **97k:31012** and **97k:31013**
- Borell, Christer** A note on parabolic convexity and heat conduction. (English and French summaries) **97d:35087**
- Brossard, Jean** (with Chevalier, Lucien) Une réciproque optimale du théorème de Fatou ponctuel. (English and French summaries) [An optimal converse of the pointwise Fatou theorem] **97f:31017**
- Chang, Zhi Hua** (with Yang, Li Hong) Perturbations of Dirichlet forms by Dirichlet forms. (Chinese. English and Chinese summaries)
- Chen, Zhen-Qing** (with Zhao, Zhong Xin) Potential theory for elliptic systems. (English summary) **97e:35039**
- Chevalier, Lucien** *see* **Brossard, Jean**, **97f:31017**
- Chung, Kai Lai** ★ Green, Brown, and probability. **97g:60105**
- Cranston, Michael** (with Greven, Andreas) Coupling and harmonic functions in the case of continuous time Markov processes. (English summary) **97a:60098**
- Cupala, Wiesław** The upper bound of the number of eigenvalues for a class of perturbed Dirichlet forms. (English summary) **97a:35166**
- Dynkin, E. B.** (with Kuznetsov, S. E.) Solutions of $Lu = u^a$ dominated by L -harmonic functions. (English summary) **97f:35048**
- Fukai, Yasunari** (with Uchiyama, Kôhei) Potential kernel for two-dimensional random walk. (English summary) **97m:60098**
- (with Uchiyama, Kôhei) Wiener's test for space-time random walks and its applications. (English summary) **97f:60130**
- Greven, Andreas** *see* **Cranston, Michael**, **97a:60098**
- Hirsch, Francis** Quasi-sure analysis of non-negative Brownian martingales. (English summary) **97b:60076**
- Potential theory related to some multiparameter processes. (English summary) **97f:31023**
- Höfne, Rainer** On global existence of solutions of SDE's with singular drift. (English summary) **97e:60100**
- den Hollander, Frank** (with Menshikov, M. V.; Volkov, S. E.) Two problems about random walks in a random field of traps. (English summary) **97h:60075**
- Hu, Xiao Yu** The measure properties of a class of general subordinators and the random reorderings of the Cantor set. **97k:60202**

- Khoshnevisan, Davar** Lévy classes and self-normalization. (English summary) **97h:60024**
- Kuznetsov, S. E.** *see* Dynkin, E. B. **97f:35048**
- Le Gall, Jean-François** A probabilistic approach to the trace at the boundary for solutions of a semilinear parabolic partial differential equation. (English summary) **97m:35125**
- Ma, Zhi Ming** Quasi-regular Dirichlet forms and applications. **97j:31011**
- Maagli, Habib** Perturbation des résolvantes et représentation des mesures excessives. (English and French summaries) [Perturbation of resolvents and representation of excessive measures] **97d:31012**
- Menshikov, M. V.** *see* den Hollander, Frank; et al. **97h:60075**
- Moskal'tsova, N. V.** Miser classes and asymptotic behavior of potentials of ergodic Markov processes. (English summary) **97m:60105**
- Pruss, Alexander R.** Symmetrization, Green's functions, harmonic measures and difference equations.
- Ramasubramanian, S.** On the gauge for the third boundary value problem. (English summary) **97m:60113**
- Salisbury, Thomas S.** Energy, and intersections of Markov chains. (English summary) **97f:60087**
- Smits, Robert G.** Spectral gaps and rates to equilibrium for diffusions in convex domains. **97d:35037**
- Sturm, Karl-Theodor** Sharp estimates for capacities and applications to symmetric diffusions. (English summary) **97a:31004**
- Uboe, Jan** (with Zhang, Tu Sheng) Gaussian tail estimates for Dirichlet processes. (English summary) **97k:31011**
- Uchiyama, Kōhei** *see* Fukai, Yasunari. **97j:60130** and **97m:60098**
- Uemura, Toshihiro** On weak convergence of diffusion processes generated by energy forms. **97c:60199**
- Vanderbei, Robert J.** A probabilistic formula for the concave hull of a function. (English summary) **97c:60078**
- Volkov, S. E.** *see* den Hollander, Frank; et al. **97h:60075**
- Vondráček, Zoran** An estimate for the L^2 -norm of a quasicontinuous function with respect to a smooth measure. **97k:46032**
- A characterization of certain diffusions on the Sierpiński gasket by the exit distributions. (English summary) **97f:60154**
- Yang, Li Hong** *see* Chang, Zhi Hua
- Zhang, Tu Sheng** *see* Uboe, Jan. **97k:31011**
- Zhao, Zhong Xin** *see* Chen, Zhen-Qing. **97c:35039**

60J50 Boundary theory

Items with secondary classifications in 60J50

- Ballmann, Werner** (with Ledrappier, François) Discretization of positive harmonic functions on Riemannian manifolds and Martin boundary. (English and French summaries) **97m:58207**
- Biliedtner, Jürgen** (with Loeb, Peter A.) Generalized radial limits associated with representing measures. **97c:31016**
- Boukricha, A.** (with Hansen, Wolfhard) Martin boundary for Schrödinger operators with singularity. **97b:31003**
- Choucrout, Francis M.** Groupes d'automorphismes et frontières d'arbres: le cas homogène. (English and French summaries) [Automorphism groups and tree boundaries: the homogeneous case] (see **97f:60004**)
- Guivarc'h, Yves** Compactifications of symmetric spaces and positive eigenfunctions of the Laplacian. **97j:31012**
- Hansen, Wolfhard** *see* Boukricha, A. **97b:31003**
- Jaworski, Wojciech** A Poisson formula for solvable Lie groups. (English summary) **97j:22019**
- (Ji, Lizhen)** *see* Guivarc'h, Yves. **97j:31012**
- Kaimanovich, Vadim A.** (with Masur, Howard) The Poisson boundary of the mapping class group and of Teichmüller space. (English summary) **97a:32014**
- The Poisson boundary of polycyclic groups. (English summary) **97c:31014**
- Boundaries of invariant Markov operators: the identification problem. **97j:31008**
- (with Masur, Howard) The Poisson boundary of the mapping class group. (English summary) **97m:32033**
- Ledrappier, François** *see* Ballmann, Werner. **97m:58207**
- Li, Zeng-Hu** Immigration structures associated with Dawson-Watanabe superprocesses. (English summary) **97c:60140**
- Loeb, Peter A.** *see* Biliedtner, Jürgen. **97c:31016**
- Masur, Howard** *see* Kaimanovich, Vadim A. **97a:32014** and **97m:32033**
- Olivieri, Enzo** (with Scoppola, Elisabetta) Markov chains with exponentially small transition probabilities: first exit problem from a general domain. II. The general case. (English summary) **97h:60083**
- Pensavalle, Carlo** (with Steger, Tim) Tensor products with anisotropic principal series representations of free groups. (English summary) **97k:22007**
- Scoppola, Elisabetta** *see* Olivieri, Enzo. **97h:60083**
- Shashishvili, M.** The Skorokhod oblique reflection problem in a convex polyhedron. (English summary) **97a:60108**
- Steger, Tim** *see* Pensavalle, Carlo. **97k:22007**
- (Taylor, John Christopher)** *see* Guivarc'h, Yves. **97j:31012**

60J55 Local time and additive functionals

- Borodin, A. N.** (with Ibragimov, I. A.) Limit theorems for functionals of random walks. (Russian. Russian summary) **97j:60140**
- Boufoussi, B.** Régularité du temps local brownien dans les espaces de Besov-Orlicz. (English summary) [Regularity of Brownian local time in Besov-Orlicz spaces] **97g:60100**
- Csáki, Endre** (with Salminen, P.) On additive functionals of diffusion processes. (English summary) **97b:60125**
- Engelbert, Hans-Jürgen** (with Schmidt, Wolfgang Michael) On the representation theorem for additive functionals. (English summary) **97c:60190**
- Fitzsimmons, Patrick J.** Even and odd continuous additive functionals. (English summary) **97c:60191**
- Fukushima, Masatoshi** On a decomposition of additive functionals in the strict sense for a symmetric Markov process. (English summary) **97k:60210**
- Ibragimov, I. A.** *see* Borodin, A. N. **97j:60140**
- Imkeller, Peter** (with Weisz, Ferenc) Critical dimensions for the existence of self-intersection local times of the Brownian sheet in \mathbb{R}^d . (English summary) **97b:60126**
- Isozaki, Yasuki** Asymptotic estimates for the distribution of additive functionals of Brownian motion by the Wiener-Hopf factorization method. **97m:60112**
- Kang, Ju-Sung** (with Wee, In-Suk) A note on the weak invariance principle for local times. (English summary) **97f:60097**
- Lin, Huo Nan** Continuity and the incremental Hölder law for local times of multiparameter generalized Wiener processes. (Chinese. English and Chinese summaries) **97f:60166**
- Nasyrov, F. S.** Local times for functions and random processes. I. (Russian. Russian summary) **97f:60098**
- Osada, Hirofumi** (with Saitoh, Toshifumi) An invariance principle for non-symmetric Markov processes and reflecting diffusions in random domains. (English summary) **97d:60128**
- Ramasubramanian, S.** On the gauge for the third boundary value problem. (English summary) **97m:60113**
- Saitoh, Toshifumi** *see* Osada, Hirofumi. **97d:60128**
- Salminen, P.** *see* Csáki, Endre. **97b:60125**
- Schmidt, Wolfgang Michael** *see* Engelbert, Hans-Jürgen. **97c:60190**
- Wee, In-Suk** *see* Kang, Ju-Sung. **97f:60097**
- Weisz, Ferenc** *see* Imkeller, Peter. **97b:60126**

Items with secondary classifications in 60J55

- Asmussen, Søren** (with Schmidt, Volker¹) Ladder height distributions with marks. (English summary) **97f:60096**
- Baxter, Martin** The local time of a two-dimensional diffusion. (English summary) **97b:60136**
- Bertoin, Jean** (with Yor, Marc) Some independence results related to the arc-sine law. (English summary) **97c:60124**
- Borovkov, K. A.** On crossing times for multidimensional walks with skip-free components. (English summary) **97c:60121**
- Chassaing, Philippe** Slow diffusion for a Brownian motion with random reflecting barriers. (English summary) **97c:60131**
- Csáki, Endre** On some results for Bernoulli excursions. (English summary) **97f:60140**
- (with Csörgő, Miklós; Földes, Antónia; Révész, Pál) The local time of iterated Brownian motion. (English summary) **97f:60173**
- (with Földes, Antónia; Révész, Pál) Strassen theorems for a class of iterated processes. (English summary) **97f:60174**
- Csörgő, Miklós** *see* Csáki, Endre; et al. **97f:60173**
- (Erdős, Paul¹)** *see* Tóth, Bálint. **97b:60118**
- Ethier, S. N.** (with Krone, Stephen M.) Comparing Fleming-Viot and Dawson-Watanabe processes. (English summary) **97g:60064**
- Földes, Antónia** *see* Csáki, Endre; et al. **97f:60173** and **97f:60174**
- Greenberg, Albert G.** (with Malyshev, V. A.; Popov, S. Yu.) Stochastic model of massively parallel computation. (English summary) **97c:60209**
- Gruet, J.-C.** (with Shi, Zhan) The occupation time of Brownian motion in a ball. (English summary) **97c:60135**
- Hirsch, Francis** Potential theory related to some multiparameter processes. (English summary) **97f:31023**
- Imkeller, Peter** (with Yan, Jia An) Multiple intersection local time of planar Brownian motion as a particular Hida distribution. (English summary) **97f:60176**
- Khoshnevisan, Davar** Lévy classes and self-normalization. (English summary) **97h:60024**
- Krone, Stephen M.** *see* Ethier, S. N. **97g:60064**
- Leuridan, Christophe** Les théorèmes de Ray-Knight et la mesure d'Itô pour le mouvement brownien sur le tore \mathbb{R}/\mathbb{Z} . (English summary) [Ray-Knight theorems and the Itô measure for Brownian motion on the torus \mathbb{R}/\mathbb{Z}] **97b:60088**
- Malyshev, V. A.** *see* Greenberg, Albert G.; et al. **97c:60209**
- Mathieu, Pierre²** Inégalités Barlow-Yor pour les temps locaux d'intersection de deux mouvements browniens plans. (English and French summaries) [Barlow-Yor inequalities for local intersection times of two planar Brownian motions] **97a:60112**
- Ney, Peter E.** Large deviations via subadditivity. **97k:60082**
- Perman, Michael** (with Wellner, Jon A.) On the distribution of Brownian areas. (English summary) **97m:60119**
- An excursion approach to Ray-Knight theorems for perturbed Brownian motion. (English summary) **97h:60089**
- Popov, S. Yu.** *see* Greenberg, Albert G.; et al. **97c:60209**
- Révész, Pál** *see* Csáki, Endre; et al. **97f:60173**; **97f:60174** and **Tóth, Bálint**. **97b:60118**
- Schmidt, Volker¹** *see* Asmussen, Søren. **97f:60096**
- Shi, Zhan** (with Werner, Wendelin) Asymptotics for occupation times of half-lines by stable processes and perturbed reflecting Brownian motion. (English summary) **97k:60205**
- *see also* Gruet, J.-C. **97c:60135**
- Takács, Lajos** On a generalization of the arc-sine law. (English summary) **97k:60195**
- Tóth, Bálint** The "true" self-avoiding walk with bond repulsion on \mathbb{Z} : limit theorems. (English summary) **97c:60179**
- Multiple covering of the range of a random walk on \mathbb{Z} (on a question of P. Erdős and P. Révész). (English summary) **97b:60118**
- Wellner, Jon A.** *see* Perman, Michael. **97m:60119**
- Werner, Wendelin** *see* Shi, Zhan. **97k:60205**
- Yan, Jia An** *see* Imkeller, Peter. **97f:60176**
- Yor, Marc** *see* Bertoin, Jean. **97c:60124**
- Zakusilo, O. K.** A criterion for the existence of local time at zero for a class of storage processes. (Russian. Russian summary) **97c:60232**
- Zhao, Xue Lei** Functional and path continuity of a class of superprocesses. (English and Chinese summaries) **97a:60068**

60J57 Multiplicative functionals

Items with secondary classifications in 60J57

- Atar, Rami (with Zeitouni, Ofer) Lyapunov exponents for finite state nonlinear filtering. (English summary) **97k:93065**
- Eberle, Andreas Girsanov-type transformations of local Dirichlet forms: an analytic approach. **97m:60110**
- Gettoor, R. K. (with Sharpe, M. J.) Inverse subordination of excessive functions. **97b:60124**
- Oshima, Yoichi Time dependent Dirichlet forms and its application to a transformation of space-time Markov processes. (English summary) **97d:60127**
- Sharpe, M. J. *see* Gettoor, R. K., **97b:60124**
- Skorokhod, A. V. On the Lévy measure for measure-valued branching processes. (English summary) **97m:60124**
- Takeda, Masayoshi Transformations of local Dirichlet forms by supermartingale multiplicative functions. (English summary) **97d:31011**
- Two classes of extensions for generalized Schrödinger operators. (English summary) **97c:31005**
- Ying, Jiangang Killing and subordination. (English summary) **97a:31005**
- Zeitouni, Ofer *see* Atar, Rami, **97k:93065**

60J60 Diffusion processes [see also 58G32]

- Alyushina, L. A. On controlled diffusion processes in a bounded domain. (Russian. Russian summary) **97c:60129**
- Aspandiarov, Sanjar On the convergence of 2-dimensional Markov chains in quadrants with boundary reflection. (English summary) **97f:60167**
- Bardhan, Indrajit Further applications of a general rate conservation law. (English summary) **97c:60192**
- Basak, Gopal K. (with Kannan, D.) Volume nullification and asymptotic flatness of degenerate diffusions. (English summary) **97c:60130**
- Berman, Simeon M. (with Frydman, Halina) Distributions associated with Markov processes with killing. (English summary) **97c:60193**
- Calvin, James M. (with Glynn, Peter W.) Complexity of non-adaptive optimization algorithms for a class of diffusions. (English summary) **97b:60127**
- Cattiaux, Patrick (with Fradon, Myriam) Entropy, reversible diffusion processes, and Markov uniqueness. (English summary) **97g:60101**
- (with Roelly, S.; Zessin, H.) Une approche gibbsienne des diffusions browniennes infinidimensionnelles. (English and French summaries) [A Gibbsian approach to infinite-dimensional Brownian diffusions] **97b:60128**
- Chassaing, Philippe Slow diffusion for a Brownian motion with random reflecting barriers. (English summary) **97c:60131**
- Chen, Hong³ A sufficient condition for the positive recurrence of a semimartingale reflecting Brownian motion in an orthant. (English summary) **97k:60211**
- Cherkasov, I. D. Transformation of one-dimensional diffusion fields on a plane. (Russian. Russian summary) **97g:60102**
- Chitashvili, Revaz (with Mania, Mikhael) Generalized Itô formula and derivation of Bellman's equation. (English summary) **97f:60168**
- Deaconu, Mădălina (with Wantz, Sophie) Comportement des temps d'atteinte d'une diffusion fortement rentrante. (English and French summaries) [Behavior of the first hitting times for a strongly inward diffusion] **97c:60194**
- Dynkin, E. B. (with Kuznetsov, S. E.) Superdiffusions and removable singularities for quasilinear partial differential equations. (English summary) **97m:60114**
- Efremenko, S. V. On the number of crossings of a hypersurface by a multidimensional generalized diffusion process. (Ukrainian. English and Ukrainian summaries) **97b:60129**
- Fradon, Myriam *see* Cattiaux, Patrick, **97g:60101**
- Freidlin, M. I. (with Lee, Tzong-Yow) Large deviation principle for the diffusion-transmutation processes and Dirichlet problem for PDE systems with small parameter. (English summary) **97k:60212**
- Frydman, Halina *see* Berman, Simeon M., **97c:60193**
- Girlich, Hans-Joachim (with Worku, A.) Sensitivity of the Gittins index in the continuous time two-armed bandit problem. (English summary) **97f:60099**
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60K10 Applications (reliability, demand theory, etc.)

- Alzaid, Abdulhamid A. Erratum: "Aging concepts for items of unknown age" [Comm. Statist. Stochastic Models **10** (1994), no. 3, 649–659; MR 95f:60103]. **97m:60128**
- Anantharaman, V. *see* Subramanian, Ramachandran, **97f:60183**
- Barbour, A. D. (with Chrysaphinou, Ourania; Roos, Malgorzata) Compound Poisson approximation in systems reliability. (English summary) **97b:60149**
- Cao, Jinhua *see* Li, Wei, **97b:60150**
- Caramellino, Lucia (with Spizzichino, Fabio) WBF property and stochastic monotonicity of the Markov process associated to Schur-constant survival functions. (English summary) **97a:60118**
- Cheng, Shixue The optimal replacement for additive damage models in discrete setting. (English summary) **97a:60119**
- Chrysaphinou, Ourania *see* Barbour, A. D.; et al., **97b:60149**
- Cocozza-Thivent, Christiane (with Kalashnikov, Vladimir Vyacheslavovich) The failure rate in reliability. Numerical treatment. (English summary) **97m:60129**

- Dargahi-Noubary, G. R. (with Nanthakumar, A.) A mixture based method for estimating the relative security loading. (English summary) **97m:60130**
- Ebrahimi, Nader (with Lingham, Rama T.) Assessing system reliability using non-stationary models. (English summary) **97b:60114**
- Grandell, Jan Some remarks on the Ammeter risk process. (English, French and German summaries) **97c:60143**
- Gupta, Pushpa L. (with Gupta, Ramesh C.) Ageing characteristics of the Weibull mixtures. (English summary) **97c:60235**
- Gupta, Ramesh C. *see* Gupta, Pushpa L., **97c:60235**
- Hendi, M. M. I. (with Mashhour, A. F.) On new renewal better than used classes of ageing. (English summary) **97f:60182**
- Jain, Kanchan *see* Nanda, Asok K.; et al., **97j:60164**
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- Kalashnikov, Vladimir Vyacheslavovich (with Roussignol, M.) Reliability of a system with regular inspection times. (English summary) **97c:60236**
- *see also* Cocozza-Thivent, Christiane, **97m:60129**
- Koutras, Markos V. (with Papastavridis, Stavros G.; Petakos, Kyriakos I.) Bounds and limit theorems for coherent reliability. (English summary) **97c:60144**
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- Kovalenko, I. N. A non-regenerative model of a redundant repairable system: bounds for the unavailability and asymptotical insensitivity to the lifetime distribution. (English summary) **97c:60219**
- Lam, Yeh (with Zhang, Yuan Lin) Analysis of a parallel system with two different units. (English summary) **97j:60163**
- Li, Wei (with Cao, Jinhua) Approximating analysis of a kind of repairable standby systems. (English summary) **97b:60150**
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- Nanda, Asok K. (with Jain, Kanchan; Singh, Harshinder) Properties of moments for s -order equilibrium distributions. (English summary) **97j:60164**
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- Shaked, Moshe (with Szekli, Ryszard) Comparison of replacement policies via point processes. (English summary) **97c:60220**
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- Abe, Shuu-ichi Asymptotically exponential flow—reliabilities for coherent repairable networks under Markovian variation of demands. (English summary) **97d:90036**
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- Chukova, Stefanka *see* Dimitrov, Boyan; et al., **97k:60031**
- Csörgő, Miklós (with Zitikis, Ričardas) Strassen's LIL for the Lorenz curve. (English summary) **97f:60036**
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- Ghosal, J. K. (with Ghose, Sanjoy) On the non-existence of ML estimates in the negative multinomial distributions derived from nonstationary Poisson processes. (English summary) **97f:62021**
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- Neuts, Marcel F. ★ Algorithmic probability. (English summary) **97d:60001**
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- Sheu, Shey-Huei A modified block replacement policy with two variables and general random minimal repair cost. (English summary) **97d:90037**
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- Alsmeyer, Gerold Superposed continuous renewal processes: a Markov renewal approach. (English summary) 97f:60115
- Anisimov, Vladimir V. (with Orazklichev, A. A.) Asymptotic estimation of the parameters of recurrent processes of the semi-Markov type in transient states. (English summary) 97m:60131
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- Di Crescenzo, Antonio (with Ricciardi, Luigi M.) Comparing first-passage times for semi-Markov skip-free processes. (English summary) 97g:60122
- Kuber, Madhuri (with Dharmadhikari, Avinash) Association in time of a finite semi-Markov process. (English summary) 97b:60098
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- Sigbnev, M. S. An infinite variance solidarity theorem for Markov renewal functions. (English summary) 97d:60143
- Shurenkov, Valentin Mikhailovich (with Degtyar', S. V.) Markov renewal theorems in a scheme of arrays. (Ukrainian. English and Ukrainian summaries) 97b:60152
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- Ball, Frank (with Davies, Sue) Clustering of bursts of openings in Markov and semi-Markov models of single channel gating. (English summary) 97f:60135
- Bäuerle, Nicole (with Rieder, Ulrich) Comparison results for Markov-modulated recursive models. (English summary) 97k:60238
- Cocozza-Thivent, Christiane (with Kalashnikov, Vladimir Vyacheslavovich) The failure rate in reliability. Numerical treatment. (English summary) 97m:60129
- Dąbrowska, Dorota M. Estimation of transition probabilities and bootstrap in a semiparametric Markov renewal model. (English summary) 97c:62202
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- Donatiello, L. see Grassi, Vincenzo; et al.
- Gerontidis, Ioannis I. A continuous time Markov-renewal replacement model for manpower systems. (English summary) (see 97f:00010)
- Grassi, Vincenzo (with Donatiello, L.; Stănăşilă, O.; Tucci, S.) On the distribution of cumulative reward in semi-Markov processes. (English and Romanian summaries)

- Kumar, B. Krishna On semi-Markov birth and death compartmental models. (English summary)
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- Cocozza-Thivent, Christiane (with Kalashnikov, Vladimir Vyacheslavovich) The failure rate in reliability. Numerical treatment. (English summary) 97m:60129
- Daduna, Hans (with Szkli, Ryszard) A queueing theoretical proof of increasing property of Pólya frequency functions. (English summary) 97j:60034
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- Bak, Per** (with Paczuski, Maya) The dynamics of fractals. (English summary) 97f:28024
- Ben Arous, Gérard** (with Guionnet, Alice) Large deviations for Langevin spin glass dynamics. (English summary) 97f:60029a
- (with Guionnet, Alice) Erratum: "Large deviations for Langevin spin glass dynamics". 97f:60029b
- (with Deuschel, Jean-Dominique) The construction of the $(d + 1)$ -dimensional Gaussian droplet. (English summary) 97h:60047
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- Boldrighini, C.** (with Minlos, R. A.; Pellegrinotti, A.) Asymptotic decay of correlations for a fluctuating environment in interaction with a two-particle random walk. (Italian summary) 97f:60139
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- Guionnet, Alice (with Zegarliński, Bogusław) Decay to equilibrium in random spin systems on a lattice. (English summary) 97j:82105
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Conference:

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60K40 Other physical applications of random processes

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O'Neill, Philip Strong approximations for some open population epidemic models. (English summary) 97d:92020

60K99 None of the above, but in this section

- Assmussen, Søren (with Sigman, Karl) Montone stochastic recursions and their duals. (English summary) 97a:60146
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- Lucero, Alberto A generalized Erlang distribution showing overdispersion. (English summary)
- Nakonechnyi, A. N. see Kovalenko, I. N.; et al.
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- Wu, Da Jin see Yang, Ming²; et al.
- Yang, Ming² (with Cao, Li¹; Wu, Da Jin) The mean first-passage time for a system driven by non-Markovian continuous noise. (Chinese. English and Chinese summaries)

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- Farahmand, K. Sharp crossings of a non-stationary stochastic process and its application to random polynomials. (English summary) 97d:60071
- He, Dao Jie see Shi, Ding Hua

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- Hofri, Micha** ★ Analysis of algorithms. **97e:68050**
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- Jagerman, David L.** (with Melamed, Benjamin; Willinger, Walter) Stochastic modeling of traffic processes. (English summary) (see **97f:60001**)
- Jin, Xing** (with Deng, Shu Hui) Structural analysis of the tandem production line with buffers using Harris Markov chains. (Chinese. English and Chinese summaries)
- Klöppelberg, Claudia** (with Mikosch, Thomas) Delay in claim settlement and ruin probability approximations. (English summary) **97e:62133**
- Kurbanmuradov, O. A.** A 3D stochastic model of relative dispersion of particle pairs in local-isotropic turbulence. (English summary) **97k:76059**
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- (Lindenberg, Katja)** see **Honerkamp, Josef**, **97g:82010**
- Maksimov, V. M.** Cubic stochastic matrices and their probability interpretations. (Russian. Russian summary) **97e:60115**
- Melamed, Benjamin** see **Jagerman, David L.**; et al., (**97f:60001**)
- Melas, V. B.** see **Ermakov, S. M.**, **97g:65018**
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- Picard, Philippe** (with Lefèvre, Claude) First crossing of basic counting processes with lower non-linear boundaries: a unified approach through pseudopolynomials. I. (English summary) **97j:60155**
- Picco, Pierre** Artificial neural networks—a review from physical and mathematical points of view. (English and French summaries) **97g:82011**
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- Simonot, F.** (with Song, Ye Qiong) Characterization of convergence rates for the approximation of the stationary distribution of infinite monotone stochastic matrices. (English summary) **97h:60071**
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62-XX Statistics {For numerical methods, see 65U05.}

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- Welsh, A. H. ★ Aspects of statistical inference. (English summary) 97k:62004
- Witting, Hermann (with Müller-Funk, Ulrich) ★ Mathematische Statistik. II. (German) [Mathematical statistics. II] 97c:62001
- Zhivopistsev, F. A. (with Ivanov, Vadim Aleksandrovich) ★ Регрессионный анализ в экспериментальной физике. (Russian) [Regression analysis in experimental physics]

Items with secondary classifications in 62-01

- Agresti, Alan ★ An introduction to categorical data analysis. (English summary) 97c:62133
- Bartoszyński, Robert (with Niewiadomska-Bugaj, Magdalena) ★ Probability and statistical inference. (English summary) 97k:60001
- Derman, Cyrus see Olkin, Ingram; et al., 97c:60002
- Gleser, Leon Jay see Olkin, Ingram; et al., 97c:60002
- Kovalenko, I. N. (with Kuznetsov, N. Yu.; Shurenkov, Valentin Mikhailovich) ★ Models of random processes. 97b:60001
- Kuznetsov, N. Yu. see Kovalenko, I. N.; et al., 97b:60001
- Niewiadomska-Bugaj, Magdalena see Bartoszyński, Robert, 97k:60001
- Olkin, Ingram (with Gleser, Leon Jay; Derman, Cyrus) ★ Probability models and applications. 97c:60002
- Shurenkov, Valentin Mikhailovich see Kovalenko, I. N.; et al., 97b:60001
- (Skorokhod, A. V.) see Kovalenko, I. N.; et al., 97b:60001

62-02 Research exposition (monographs, survey articles)

- Greenwood, Priscilla E. (with Nikulin, M. S.) ★ A guide to chi-squared testing. (English summary) 97c:62002
- Nikulin, M. S. see Greenwood, Priscilla E., 97c:62002
- Seber, George A. F. see Thompson, Steven K., 97b:62001
- Tanner, Martin A. ★ Tools for statistical inference. (English summary) 97c:62004
- Thompson, Steven K. (with Seber, George A. F.) ★ Adaptive sampling. (English summary) 97b:62001

Items with secondary classifications in 62-02

- Haberman, Shelby J. ★ Advanced statistics. Vol. 1. 97j:62002
- Jurečková, Jana (with Sen, Pranab Kumar¹) ★ Robust statistical procedures. (English summary) 97c:62048
- Reid, Nancy Likelihood and higher-order approximations to tail areas: a review and annotated bibliography. (English and French summaries) 97d:62005
- Sen, Pranab Kumar¹ see Jurečková, Jana, 97c:62048

62-03 Historical (must also be assigned at least one classification number from Section 01)

- Anderson, T. W. R. A. Fisher and multivariate analysis. (English summary)
- Barnard, George A. Neyman and the Behrens-Fisher problem—an anecdote. (English summary) 97c:62003
- Fienberg, Stephen E. (with Tanur, Judith M.) Reconsidering Neyman on experimentation and sampling: controversies and fundamental contributions. 97c:62005
- (Fisher, Ronald Aylmer) see Anderson, T. W.
- LeCam, L. Neyman and stochastic models. 97j:62001
- Stigler, Stephen M. The history of statistics in 1933.
- Tanur, Judith M. see Fienberg, Stephen E., 97c:62005

Items with secondary classifications in 62-03

- (Beckmann, Martin) see Sheinin, O. B., 97e:01015
- (Chuprov, Aleksandr A.) see Sheinin, O. B., 97e:01015
- Dudewicz, Edward J. The heteroscedastic method: fifty+ years of progress 1945–2000, and professor Minoru Siotani's award-winning contributions. (English summary) (see 97b:00029)
- Dutka, Jacques On Gauss' priority in the discovery of the method of least squares. 97b:01010
- Fujikoshi, Yasunori Siotani's contributions to multivariate statistical analysis. (English summary) (see 97b:00029)
- Howarth, Richard J. Sources for a history of the ternary diagram. 97k:01001
- Korolyuk, V. S. The origins of probability theory in Ukraine. (English summary)

- Sheinin, O. B. ★ Aleksandr A. Chuprov: life, work, correspondence. 97e:01015
- (Strecker, Heinrich) see Sheinin, O. B., 97e:01015
- (Wiegert, Rolf) see Sheinin, O. B., 97e:01015

Items listed otherwise than by author

- Bibliography:
Chuprov, A. A. see Sheinin, O. B., 97e:01015
- Biography:
Chuprov, A. A. see Sheinin, O. B., 97e:01015
- Correspondence:
Chuprov, A. A. see Sheinin, O. B., 97e:01015

62-04 Explicit machine computation and programs (not the theory of computation or programming)

- Rudolfer, Stephan M. (with Watson, Peter C.) Evaluation of orthant probabilities for singular bi- and trivariate normal distributions. (English summary)
- Watson, Peter C. see Rudolfer, Stephan M.

Items with secondary classifications in 62-04

- Al-Hassan, Qassem see Kofahi, Najib A.; et al.
- Al-Rawwash, Hussein see Kofahi, Najib A.; et al.
- Haylock, R. G. (with O'Hagan, A.) On inference for outputs of computationally expensive algorithms with uncertainty on the inputs. (English summary) (see 97f:62001)
- Kofahi, Najib A. (with Al-Hassan, Qassem; Al-Rawwash, Hussein) An iterative computer algorithm for constructing admissible tests for Poisson distribution. (English summary)
- O'Hagan, A. see Haylock, R. G., (97f:62001)
- Posten, Harry O. A new algorithm for the noncentral t distribution function. (English summary)

Items listed otherwise than by author

- Conference:
American Statistical Association ★ 1995 Proceedings of the Statistical Computing Section.
- Meeting:
American Statistical Association ★ 1995 Proceedings of the Statistical Computing Section.
- Orlando, FL ★ 1995 Proceedings of the Statistical Computing Section.
- Proceedings:
Statistical Computing Section ★ 1995 Proceedings of the Statistical Computing Section.
- Raleigh, NC ★ 1995 Proceedings of the Statistical Computing Section.

62-06 Proceedings, conferences, collections, etc.

- (Ahsanullah, Mohammad) see Applied change point problems in statistics, 97a:62001 and Applied statistical science, 97f:62001
- (Aoshima, Makoto) see MSI-2000, 97f:62002
- (Balakrishnan, Narayanaswamy) see Recent advances in life-testing and reliability, 97d:62001
- (Berger, James O.) see Bayesian statistics, 97f:62001
- (Bernardo, J. M.) see Bayesian statistics, 97f:62001
- (Bhoj, D. S.) see Applied statistical science, 97f:62001
- (Calvin, James A.) see Proceedings: Meeting of the Institute of Mathematical Statistics, in Honor of Robert V. Hogg
- (Carroll, Raymond J.) see Robust statistics and data analysis
- (Cohen, Alonzo Clifford, Jr.) see Recent advances in life-testing and reliability, 97d:62001
- (Cutler, Colleen D.) see Nonlinear dynamics and time series, 97f:62002
- (Dawid, A. P.) see Bayesian statistics, 97f:62001
- (Fernholz, L.) see Robust statistics and data analysis
- (Francis, B. J.) see Statistical modelling, 97m:62001
- (Gaul, Wolfgang) see From data to knowledge, 97c:62006
- (Hatzinger, R.) see Statistical modelling, 97m:62001
- (Hayakawa, Takeshi) see MSI-2000, 97f:62002
- (Hogg, Robert V.) see Proceedings: Meeting of the Institute of Mathematical Statistics, in Honor of Robert V. Hogg
- (Kaplan, Daniel T.) see Nonlinear dynamics and time series, 97f:62002
- (Pázman, Andrej) see ProbaStat '94
- (Pfeifer, Dietmar) see From data to knowledge, 97c:62006
- (Robbins, Herbert E.) see Empirical Bayes, sequential analysis and related topics in statistics and probability
- (Rukhin, Andrew L.) see Applied change point problems in statistics, 97a:62001
- (Seber, G. U. H.) see Statistical modelling, 97m:62001
- (Shimizu, Kuniio) see MSI-2000, 97f:62002
- (Sinha, Bimal) see Applied change point problems in statistics, 97a:62001
- (Siotani, Minoru) see MSI-2000, 97f:62002
- (Smith, Adrian F. M.) see Bayesian statistics, 97f:62001
- (Steckel-Berger, G.) see Statistical modelling, 97m:62001
- (Tyler, David E.) see Robust statistics and data analysis
- (Witkovský, Viktor) see ProbaStat '94

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- Alicante ★ Bayesian statistics. 5. 97f:62001
- Applied change point problems in statistics ★ Applied change point problems in statistics. 97a:62001
- Applied statistical science ★ Applied statistical science. I. 97f:62001
- Baltimore, MD ★ Applied change point problems in statistics. 97a:62001
- Bayesian statistics ★ Bayesian statistics. 5. 97f:62001
- Birthday:
Cohen, Alonzo Clifford, Jr. ★ Recent advances in life-testing and reliability. 97d:62001
- Hogg, Robert V. ★ Proceedings from the Institute of Mathematical Statistics Central Regional Meeting: A Meeting in Honor of Robert V. Hogg.

Birthdays: (cont'd.)

Siotani, Minoru ★ MSI-2000. Vol. II. 97f:62002

Conference:

American Statistical Association ★ 1995 Proceedings of the Business and Economic Statistics Section.

- ★ 1995 Proceedings of the Section on Bayesian Statistical Science.
- ★ 1995 Proceedings of the Section on Physical and Engineering Sciences.
- ★ 1995 Proceedings of the Section on Physical and Engineering Sciences.
- ★ 1995 Proceedings of the Statistical Computing Section.

Applied Change Point ★ Applied change point problems in statistics. 97a:62001

Applied Statistical Science ★ Applied statistical science. I. 97f:62001

Empirical Bayes, Sequential Analysis and Related Topics in Statistics ★ Empirical Bayes, sequential analysis and related topics in statistics and probability.

German Classification Society ★ From data to knowledge. 97c:62006

Mathematical Statistics ★ ProbaStat '94.

Multivariate Statistical Inference 2000 ★ MSI-2000. Vol. II. 97f:62002

Robbins, Herbert E. ★ Empirical Bayes, sequential analysis and related topics in statistics and probability.

Technical, American Statistical Association ★ 1995 Proceedings of the Section on Physical and Engineering Sciences.

Empirical Bayes, sequential analysis and related topics in statistics and probability

★ Empirical Bayes, sequential analysis and related topics in statistics and probability.

From data to knowledge ★ From data to knowledge. 97c:62006

Honolulu, HI ★ MSI-2000. Vol. II. 97f:62002

Innsbruck ★ Statistical modelling. 97m:62001

Iowa City, IA ★ Proceedings from the Institute of Mathematical Statistics Central Regional Meeting: A Meeting in Honor of Robert V. Hogg.

Kazan ★ Proceedings of the XVII Seminar on Stability Problems for Stochastic Models.

Part I. 97f:62003

Lawrenceville, NJ ★ Applied statistical science. I. 97f:62001

Lecture Notes in Statistics ★ Statistical modelling. 97m:62001

Meeting:

American Statistical Association ★ 1995 Proceedings of the Business and Economic Statistics Section.

- ★ 1995 Proceedings of the Section on Bayesian Statistical Science.
- ★ 1995 Proceedings of the Section on Physical and Engineering Sciences.
- ★ 1995 Proceedings of the Statistical Computing Section.

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Hogg, Robert V. ★ Proceedings from the Institute of Mathematical Statistics Central

Regional Meeting: A Meeting in Honor of Robert V. Hogg.

Institute of Mathematical Statistics, in Honor of Robert V. Hogg ★ Proceedings from the Institute of Mathematical Statistics Central Regional Meeting: A Meeting in Honor of Robert V. Hogg.

International Society for Bayesian Analysis ★ 1995 Proceedings of the Section on Bayesian Statistical Science.

Montreal, PQ ★ Nonlinear dynamics and time series. 97f:62002

MSI-2000 ★ MSI-2000. Vol. II. 97f:62002

New Brunswick, NJ ★ Empirical Bayes, sequential analysis and related topics in statistics and probability.

Nonlinear dynamics and time series ★ Nonlinear dynamics and time series. 97f:62002

Oaxaca ★ 1995 Proceedings of the Section on Bayesian Statistical Science.

Oldenburg ★ From data to knowledge. 97c:62006

Orlando, FL ★ 1995 Proceedings of the Business and Economic Statistics Section.

- ★ 1995 Proceedings of the Section on Bayesian Statistical Science.
- ★ 1995 Proceedings of the Section on Physical and Engineering Sciences.
- ★ 1995 Proceedings of the Statistical Computing Section.

ProbaStat '94 ★ ProbaStat '94.

Proceedings:

Business and Economic Statistics Section ★ 1995 Proceedings of the Business and Economic Statistics Section.

Meeting of the Institute of Mathematical Statistics, in Honor of Robert V. Hogg

★ Proceedings from the Institute of Mathematical Statistics Central Regional Meeting: A Meeting in Honor of Robert V. Hogg.

Section on Bayesian Statistical Science ★ 1995 Proceedings of the Section on Bayesian Statistical Science.

Section on Physical and Engineering Sciences ★ 1995 Proceedings of the Section on Physical and Engineering Sciences.

Seminar on Stability Problems for Stochastic Models ★ Proceedings of the XVII Seminar on Stability Problems for Stochastic Models. Part I. 97f:62003

Statistical Computing Section ★ 1995 Proceedings of the Statistical Computing Section.

Raleigh, NC ★ 1995 Proceedings of the Business and Economic Statistics Section.

- ★ 1995 Proceedings of the Section on Bayesian Statistical Science.
- ★ 1995 Proceedings of the Section on Physical and Engineering Sciences.
- ★ 1995 Proceedings of the Statistical Computing Section.

Recent advances in life-testing and reliability ★ Recent advances in life-testing and reliability. 97d:62001

Robust statistics and data analysis ★ Robust statistics and data analysis. I.

— ★ Robust statistics and data analysis. II.

Seminar:

Stability Problems for Stochastic Models ★ Proceedings of the XVII Seminar on Stability Problems for Stochastic Models. Part I. 97f:62003

Smolence Castle ★ ProbaStat '94.

Special Issue:

Robust statistics and data analysis ★ Robust statistics and data analysis. I.

— ★ Robust statistics and data analysis. II.

St. Louis, MO ★ 1995 Proceedings of the Section on Physical and Engineering Sciences.

Statistical methods of estimation and testing of hypotheses ★ Statistical methods of estimation and testing of hypotheses. 97f:62004

Statistical modelling ★ Statistical modelling. 97m:62001

Waterloo, ON ★ 1995 Proceedings of the Section on Physical and Engineering Sciences.

Workshop:

Nonlinear Dynamics and Time Series: Building a Bridge between the Natural and Statistical Sciences ★ Nonlinear dynamics and time series. 97f:62002

Statistical Modelling ★ Statistical modelling. 97m:62001

Items with secondary classifications in 62-06

(Bauwens, Luc) see Annals of econometrics: Bayes, Bernoulli, and Basel, 97d:62230

(Borthakur, A. C.) see Probability models and statistics, 97c:60004

(Cambanis, Stamatis) see Stochastic processes, 97f:60003

(Choudhury, H.) see Probability models and statistics, 97c:60004

(Constantini, Domenico) see Probability, dynamics and causality, 97m:00030

(van Dijk, Herman K.) see Annals of econometrics: Bayes, Bernoulli, and Basel, 97d:62230

(Galavotti, Maria Carla) see Probability, dynamics and causality, 97m:00030

(Ghosh, Jayanta K.) see Stochastic processes, 97f:60003

(Hamada, Noboru) see Special Issue: Orthogonal arrays and affine designs, 97f:05003 and 97f:05004

(Jeffrey, Richard C.) see Probability, dynamics and causality, 97m:00030

(Kallianpur, Gopinath) see Stochastic processes, 97f:60003

(Karandikar, Rajeeva L.) see Stochastic processes, 97f:60003

(Key, J. D.) see Special Issue: Orthogonal arrays and affine designs, 97f:05003 and 97f:05004

(Krzyszowski, Wojtek J.) see Recent advances in descriptive multivariate analysis, 97c:62113

(Levinson, Stephen E.) see Image models (and their speech model cousins), 97f:00014

(Mavrou, V. C.) see Special Issue: Orthogonal arrays and affine designs, 97f:05003 and 97f:05004

(Medhi, J.) see Probability models and statistics, 97c:60004

(Polasek, Wolfgang) see Annals of econometrics: Bayes, Bernoulli, and Basel, 97d:62230

(Sen, Pranab Kumar) see Stochastic processes, 97f:60003

(Shepp, Larry) see Image models (and their speech model cousins), 97f:00014

(Singhi, N. M.) see Special Issue: Orthogonal arrays and affine designs, 97f:05003 and 97f:05004

(Tonchev, Vladimir D.) see Special Issue: Orthogonal arrays and affine designs, 97f:05003 and 97f:05004

(Trush, N. N.) see Mathematical modeling and statistical analysis of time series, 97m:00020

(Uosaki, Katsuji) see Symposium: Past, Present and Future of Stochastic Approaches, 97a:93005

(Vakulchik, P. A.) see Mathematical modeling and statistical analysis of time series, 97m:00020

(Vijayakumar, G. R.) see Special Issue: Orthogonal arrays and affine designs, 97f:05003 and 97f:05004

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Annals of econometrics: Bayes, Bernoulli, and Basel ★ Annals of econometrics: Bayes, Bernoulli, and Basel. 97d:62230

Beppu ★ Symposium: Past, Present and Future of Stochastic Approaches. (Japanese) 97a:93005

Conference:

Annals of Econometrics: Bayes, Bernoulli, and Basel ★ Annals of econometrics: Bayes, Bernoulli, and Basel. 97d:62230

Probability, Dynamics and Causality ★ Probability, dynamics and causality. 97m:00030

Exeter ★ Recent advances in descriptive multivariate analysis. 97c:62113

Festschrift:

Jeffrey, Richard Carl ★ Probability, dynamics and causality. 97m:00030

Kallianpur, Gopinath ★ Stochastic processes. 97f:60003

Medhi, Jyoti Prasad ★ Probability models and statistics. 97c:60004

Image models (and their speech model cousins) ★ Image models (and their speech model cousins). 97f:00014

Luino ★ Probability, dynamics and causality. 97m:00030

Mathematical modeling and statistical analysis of time series ★ Математическое моделирование и статистический анализ временных рядов. (Russian) [Mathematical modeling and statistical analysis of time series] 97m:00020

Minneapolis, MN ★ Image models (and their speech model cousins). 97f:00014

Probability, dynamics and causality ★ Probability, dynamics and causality. 97m:00030

Probability models and statistics ★ Probability models and statistics. 97c:60004

Recent advances in descriptive multivariate analysis ★ Recent advances in descriptive multivariate analysis. 97c:62113

Special Issue:

Orthogonal arrays and affine designs ★ Special issue on orthogonal arrays and affine designs. Part I. 97f:05003

— ★ Special issue on orthogonal arrays and affine designs. Part II. 97f:05004

Stochastic processes ★ Stochastic processes. 97f:60003

Symposium:

Past, Present and Future of Stochastic Approaches ★ Symposium: Past, Present and Future of Stochastic Approaches. (Japanese) 97a:93005

Recent Advances in Descriptive Multivariate Analysis ★ Recent advances in descriptive multivariate analysis. 97c:62113

Workshop:

Image Models (and Their Speech Model Cousins) ★ Image models (and their speech model cousins). 97f:00014

62-07 Data analysis

Benjamini, Yoav (with Krieger, Abba M.) Concepts and measures for skewness with data-analytic implications. (English and French summaries) 97a:62002

Biedermann, Klaus (with Wille, Rudolf) Valuations and hierarchizations. (English summary) (see 97c:62006)

Davies, P. L. Data features. (English summary) 97d:62002

Dazy, Frédéric (with Le Barzic, Jean-François) ★ L'analyse des données évolutives. (French) [Evolutive data analysis] 97c:62007

Gower, J. C. A general theory of biplots. (see 97c:62113)

Gras, R. (with Ratsimba-Rajohn, H.) Analyse non symétrique de données par l'implication statistique. (English and French summaries) [Nonsymmetric data analysis using statistical implication]

Krieger, Abba M. see Benjamini, Yoav, 97c:62002

(Lavallard, Françoise) see Dazy, Frédéric, 97c:62007

Le Barzic, Jean-François see Dazy, Frédéric, 97c:62007

Ratsimba-Rajohn, H. see Gras, R.

(Saporta, Gilbert) see Dazy, Frédéric, 97c:62007

Scott, W. F. (with Smith, I. G. N.) Estimating mean weekly rainfall. (English summary)

Smith, I. G. N. see Scott, W. F.

Wille, Rudolf see Biedermann, Klaus, (97c:62006)

Items with secondary classifications in 62-07

(Bertrand, Patrice) see New approaches in classification and data analysis

(Bartsch, B.) see New approaches in classification and data analysis

Carlin, Bradley P. (with Louis, Thomas A.) ★ Bayes and empirical Bayes methods for data analysis. (English summary) 97k:62001

(Diday, E.) see New approaches in classification and data analysis

Edwards, David G. Graphical modelling. (see 97c:62113)

Gnanadesikan, R. ★ Methods for statistical data analysis of multivariate observations. (English summary) 97k:62140

González Carmona, Andrés see Vera, J. Fernando

Hampel, Frank What can the foundations discussion contribute to data analysis? And what may be some of the future directions in robust methods and data analysis? (English summary) 97k:62063

Heiser, Willem J. Convergent computation by iterative majorization: theory and applications in multidimensional data analysis. (see 97c:62113)

(Lechevallier, Y.) see New approaches in classification and data analysis

Louis, Thomas A. see Carlin, Bradley P., 97k:62001

(Schader, M.) see New approaches in classification and data analysis

Sivia, D. S. ★ Data analysis. (English summary) 97k:62003

Vera, J. Fernando (with González Carmona, Andrés) A two-way MDS method for maximum likelihood analysis of dissimilarity data with unknown origin. (Spanish. English and Spanish summaries)

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Conference:

International Federation of Classification Societies ★ New approaches in classification and data analysis.

New approaches in classification and data analysis ★ New approaches in classification and data analysis.

Paris ★ New approaches in classification and data analysis.

62-09 Graphical methods

Ghosh, Sucharita A new graphical tool to detect non-normality. (English summary) 97d:62003

Gower, J. C. (with Hand, D. J.) ★ Biplots. (English summary) 97c:62004

Hand, D. J. see Gower, J. C., 97c:62004

Items with secondary classifications in 62-09

Benjamini, Yoav (with Krieger, Abba M.) Concepts and measures for skewness with data-analytic implications. (English and French summaries) 97a:62002

Chen, Jian-Shen (with Jennrich, Robert I.) The signed root deviance profile and confidence intervals in maximum likelihood analysis. (English summary) 97m:62028

Dazy, Frédéric (with Le Barzic, Jean-François) ★ L'analyse des données évolutives. (French) [Evolutive data analysis] 97c:62007

Gower, J. C. A general theory of biplots. (see 97c:62113)

Jennrich, Robert I. see Chen, Jian-Shen, 97m:62028

Krieger, Abba M. see Benjamini, Yoav, 97a:62002

(Lavallard, Françoise) see Dazy, Frédéric, 97c:62007

Le Barzic, Jean-François see Dazy, Frédéric, 97c:62007

(Saporta, Gilbert) see Dazy, Frédéric, 97c:62007

62Axx Foundations

62A05 Invariance and group considerations

van Berkum, E. E. M. (with Linssen, H. N.; Overdijk, D. A.) The reduction and ancillary classification of observations. (English summary) 97c:62008

Kamiya, Hidehiko Borel isomorphism between the sample space and a product space. (English summary) 97k:62005

Linssen, H. N. see van Berkum, E. E. M.; et al., 97c:62008

Overdijk, D. A. see van Berkum, E. E. M.; et al., 97c:62008

Items with secondary classifications in 62A05

Berk, Robert (with García Nogales, Agustín; Oyola, J. A.) Some counterexamples concerning sufficiency and invariance. (English summary) 97c:62009

Datta, Gauri Sankar (with Ghosh, Jayanta K.) Noninformative priors for maximal invariant parameter in group models. (English summary) 97c:62010

— (with Ghosh, Malay) On the invariance of noninformative priors. (English summary) 97b:62004

García Nogales, Agustín see Berk, Robert; et al., 97c:62009

Ghosh, Jayanta K. see Datta, Gauri Sankar, 97c:62010

Ghosh, Malay see Datta, Gauri Sankar, 97b:62004

Oyola, J. A. see Berk, Robert; et al., 97c:62009

Takada, Yoshikazu Statistical properties of prediction intervals [translation of Sūgaku 46 (1994), no. 3, 193–205]. (see 97g:00026)

62A10 The likelihood approach

Barndorff-Nielsen, Ole E. Stable and invariant adjusted profile likelihood and directed likelihood for curved exponential models. (English summary) 97c:62005

Bjørnstad, Jan F. On the generalization of the likelihood function and the likelihood principle. (English summary) 97d:62004

Fraser, D. A. S. (with Reid, Nancy) Evolution in statistical inference: from sufficiency to likelihood asymptotics. (English summary) 97b:62003

— (with McDunnough, Philip; Naderi, Amir; Plante, André) On the definition of probability densities and sufficiency of the likelihood map. (English summary) 97b:62003

— (with Reid, Nancy) Separating error, nuisance effect and main effect: tangent models and third order inference. (English summary)

Gabor, George see Qian, Guoqi; et al., 97m:62002

Gupta, Rajendra P. see Qian, Guoqi; et al., 97m:62002

Haberman, Shelby J. ★ Advanced statistics. Vol. 1. 97j:62002

Hanfelt, John J. (with Liang, Kung-Yee) Approximate likelihood ratios for general estimating functions. (English summary) 97c:62009

Liang, Kung-Yee (with Self, Steven G.) On the asymptotic behaviour of the pseudolikelihood ratio test statistic. (English summary) 97b:62002

— see also Hanfelt, John J., 97c:62009

McDunnough, Philip see Fraser, D. A. S.; et al., 97b:62003

Naderi, Amir see Fraser, D. A. S.; et al., 97b:62003

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Qian, Guoqi (with Gabor, George; Gupta, Rajendra P.) Generalised linear model selection by the predictive least quasi-deviance criterion. (English summary) 97m:62002

Reid, Nancy Likelihood and higher-order approximations to tail areas: a review and annotated bibliography. (English and French summaries) 97d:62005

— see also Fraser, D. A. S., 97b:62003

Self, Steven G. see Liang, Kung-Yee, 97b:62002

Items with secondary classifications in 62A10

Du, Jingsong see Zhang, Yao Ting

Li, Bing² A minimax approach to consistency and efficiency for estimating equations. (English summary) 97b:62080

Petkür, Goran On separability of families of reversed submartingales. (English summary) 97a:60055

Severini, Thomas A. Information and conditional inference. (English summary) 97a:62004

Zhang, Yao Ting (with Du, Jingsong) Reasoning on likelihood ratios. (English summary)

62A15 The Bayesian approach

Arnold, Barry C. (with Castillo, Enrique; Sarabia, José María) Priors with convenient posteriors. (English summary) 97j:62003

Barnabani, Marco Constraining the likelihood function in the presence of approximate prior information. (Italian. English and Italian summaries)

Berger, James O. (with Pericchi, Luis R.) The intrinsic Bayes factor for model selection and prediction. (English summary) 97c:62006

Berti, Patrizia (with Rigo, Pietro) On the existence of inferences which are consistent with a given model. (English summary) 97j:62004

Castillo, Enrique see Arnold, Barry C.; et al., 97j:62003

Cervera, J. L. (with Muñoz-García, Joaquín) Proper scoring rules for fractiles. (English summary) (see 97f:62001)

Chaturvedi, Anoop Robust Bayesian analysis of the linear regression model. (English summary) 97f:62004

Costantini, D. (with Garibaldi, U.) Predictive laws of association in statistics and physics. (English summary) (see 97m:00030)

Cowell, R. G. (with Dawid, A. P.; Sebastiani, P.) A comparison of sequential learning methods for incomplete data. (English summary) (see 97f:62001)

Datta, Gauri Sankar (with Ghosh, Jayanta K.) Noninformative priors for maximal invariant parameter in group models. (English summary) 97c:62010

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Dawid, A. P. see Cowell, R. G.; et al., (97f:62001)

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62Bxx Sufficiency and information

62B05 Sufficient statistics and fields

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- Pöit, Stefan** see **Anulova, S. V.**, **97b:68176**
- Rateitschak, Katja** see **Ebeling, Werner**; et al., **97f:58053**
- Rüschendorf, Ludger** Convergence of the iterative proportional fitting procedure. (English summary) **97c:62119**
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- Sato, Michikazu** (with Akahira, Masafumi) Information inequalities for the minimax risk. (English summary) **97b:62008**
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- Sempi, Carlo** see **Pistone, Giovanni**, **97f:62006**
- Severini, Thomas A.** Information and conditional inference. (English summary) **97a:62004**
- Shi, Daoji** Multivariate extreme value distribution and its Fisher information matrix. (English summary) **97b:60087**
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- Sin, Chor-Yiu** (with White, Halbert) Information criteria for selecting possibly misspecified parametric models. (English summary) **97b:62156**
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- Wei, Bo Cheng** (with Li, Shouye) Geometric method of sequential estimation related to multinomial distribution models. (English summary) **97b:62128**
- White, Halbert** see **Sin, Chor-Yiu**, **97b:62156**
- Ye, A Zhong** A new method for testing hypotheses. (Chinese. English and Chinese summaries)

62B15 Theory of statistical experiments

- Greenshtein, Eltan** Comparison of sequential experiments. (English summary) **97c:62011**
- Heyer, Herbert** (with Yamada, Sakutarō) On an extended notion of common conditional probability. (English summary) **97b:62008**
- Kramkov, D. O.** On a comparison of some statistical models of "signal-noise" type. (Russian. Russian summary) **97c:62016**
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- Spokoyny, V. G.** (with Shiryayev, A. N.) On the concept of the λ -convergence of statistical experiments. (Russian) **97c:62012**
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- Milhaud, Xavier** see **Bonneu, Michel**, **97f:62106**

62Cxx Decision theory [see also 90A05, 90B50; for game theory, see 90D35]

62C05 General considerations

- Asgharian, M.** (with Noorbaloochi, S.) Stein's paradox and stepwise Bayes rules. (English summary) **97f:62008**
- French, Simon** The framing of statistical decision theory: a decision analytic view. (English summary) (see **97f:62001**)
- Kadane, Joseph B.** see **Seldenfeld, Teddy**; et al., **97c:62013**
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- Schervish, Mark J.** see **Seldenfeld, Teddy**; et al., **97c:62013**
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- Di Bacco, Mario** (with Regoli, Giuliana) An alternative axiomatic approach to expected utility theory. (English and Italian summaries) **97f:90022**
- Jeong, Younsuck** Optimal designs for experiments with a large number of factors. (English summary) **97a:62166**
- Khan, Sohail Munawar** see **Ahmed, S. E.**, **97m:62004**
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- Robert, Christian P.** ★ The Bayesian choice. (English summary) **97d:62059**

62C07 Complete class results

- Rukhin, Andrew L.** On the Pitman closeness criterion from the decision-theoretic point of view. (English summary) **97f:62005**

62C10 Bayesian problems; characterization of Bayes procedures

- Dennis, Samuel Y., III** A Bayesian analysis of tree-structured statistical decision problems. (English summary) **97c:62017**
- Faria, A. E.** (with Smith, J. Q.) Conditional external Bayesianity in decomposable influence diagrams. (English summary) **97b:62006**
- Ghosh, Malay** (with Kundu, Sudeep) Decision-theoretic estimation of the variance ratio. (English summary) **97c:62014**
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- Akshira, Masafumi** see **Sato, Michikazu**, **97k:62045**
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62Exx Distribution theory [see also 60Exx]

62E10 Characterization and structure theory

- Adamidis, Konstantinos (with Loukas, Sotiris) Estimation in a truncated bivariate Poisson distribution using the EM algorithm. (English summary)
- Ahmad, Abd El-Baset Abd Allah see Pakes, Anthony G.; et al., **97i:62010**
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- Ahsanullah, Mohammad The generalized order statistics and a characteristic property of the exponential distribution. (English summary) **97b:62023**
- Al-Hussaini, Essam K. (with Fakhry, Mohammed El-Saudi) On characterization of finite mixtures of distributions. (English summary) **97i:62007**
- Balakrishnan, Narayanaswamy (with Balasubramanian, Krishnaswami) A characterization of geometric distribution based on record values. (English summary) **97i:62008**
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- Basu, Sanjit² Existence of a normal scale mixture with a given variance and a percentile. (English summary) **97a:62023**
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- Dimaki, Caterina (with Xekalaki, Evdokia) Towards a unification of certain characterizations by conditional expectations. (English summary) **97d:62017**
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- Fakhry, Mohammed El-Saudi Some characteristic properties of a certain family of probability distributions. (English summary) **97k:62015**
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- Franco, Manuel (with Ruiz Gómez, José María) On characterization of continuous distributions with adjacent order statistics. (English summary) **97g:62013**
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- Rothan, Adele Marie (with Gideon, Rudy A.) A two-sample distribution-free scale test of the Smirnov type. (English summary)
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- Shin, Dong Wan (with Basu, Ayanendranath; Sarkar, Sahadeb) Comparisons of the blended weight Hellinger distance based goodness-of-fit test statistics. (English summary) 97d:62093
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- Spurrer, John D. More bounds for moments of some rank statistics. (English summary) 97c:62104
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- Chen, Kani (with Lo, Shaw-Hwa) On bootstrap accuracy with censored data. (English summary) 97f:62088
- Ghosal, J. K. Large sample confidence interval for the quantiles in the proportional hazards model of random censorship. (English summary)
- Gilat, David (with Hill, Theodore Preston) Strongly-consistent, distribution-free confidence intervals for quantiles. (English summary) 97g:62081
- (with Hill, Theodore Preston) Erratum: "Strongly-consistent, distribution-free confidence intervals for quantiles" [Statist. Probab. Lett. 29 (1996), no. 1, 45–53; MR 97g:62081].
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- Beran, Rudolf Confidence sets centered at C_p -estimators. (English summary) 97f:62060
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- Bening, V. E. A formula for deficiency (L - and R -tests). (English summary) 97c:62109
- Brodskii, B. E. Asymptotically optimal methods in the problem of the fastest detection of change. I. Characteristics of methods for the fastest detection of change. (Russian. Russian summary) 97g:62082
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- van der Vaart, Aad W. Efficient maximum likelihood estimation in semiparametric mixture models. (English summary) 97d:62096
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- Wefelmeyer, Wolfgang Quasi-likelihood models and optimal inference. (English summary) 97c:62110
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- Xue, Liu Gen Strong consistency of t -quantile kernel estimates under the condition of dependent sampling. (Chinese)
- Zhang, Di Xin (with Li, Guo Ying¹) Bootstrapping generalized U -processes and V -processes and their applications in projection pursuit. (English summary) 97m:62052
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- Aerts, M. (with Janssen, Paul; Veraverbeke, Noël) Bootstrapping regression quantiles. (English summary) 97b:62068
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- Arfi, Mounir Nonparametric drift estimation from ergodic samples. (English summary) 97b:62130
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- Borovkov, K. A. (with Dehling, Herold; Pfeifer, Dietmar) On asymptotic behavior of weighted sample quantiles. (English summary) 97j:62076
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- Chen, Hung (with Huang, Mong-Na Lo; Huang, Wen-Jang) Estimation of the location of the maximum of a regression function using extreme order statistics. (English summary) 97f:62030
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- Cheng, Cheng Uniform consistency of generalized kernel estimators of quantile density. (English summary) 97d:62068
- Cheng, Philip E. A note on strong convergence rates in nonparametric regression. (English summary) 97f:62059
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- Choi, Young Hun Asymptotically distribution-free procedure in a two-way layout. (English summary) 97f:62059
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- Datta, Somnath On asymptotic properties of bootstrap for AR(1) processes. (English summary) 97k:62109
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- Hsieh, Fu Shing (with Turnbull, Bruce W.) A note on the local asymptotically minimax rate for estimating a crossing point in a diagnostic marker problem. (English summary) 97a:62131
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- Agresti, Alan. ★ An introduction to categorical data analysis. (English summary) **97c:62133**
- *see also* Liu, I-Ming and Kim, Donguk
- Anderson, Carolyn J. The analysis of three-way contingency tables by three-mode association models. (English summary)
- Best, D. J. (with Rayner, J. C. W.). Nonparametric analysis for doubly ordered two-way contingency tables. (English and French summaries)
- *see also* Rayner, J. C. W., **97f:62067**
- Chen, Yong Jun (with Zhang, Yao Ting). Mixtures of Dirichlet distributions and Bayesian estimation in high-dimensional contingency tables. (Chinese. English and Chinese summaries)
- Dong, Jianping (with Ye, Qian). A minimum variance kernel estimator and a discrete frequency polygon estimator for ordinal contingency tables. (English summary) **97g:62099**
- Feng, Wing K. The dependence of voter shares under a two-vote system. (English summary) **97c:62100**
- Gabriel, K. R. Biplot display of multivariate categorical data, with comments on multiple correspondence analysis. (*see* **97c:62113**)
- MANOVA biplots for two-way contingency tables. (*see* **97c:62113**)
- Goodman, Leo A. A single general method for the analysis of cross-classified data: reconciliation and synthesis of some methods of Pearson, Yule, and Fisher, and also some methods of correspondence analysis and association analysis. **97h:62050**
- Hirji, Karim F. A note on exact analysis of several 2×2 tables. (English and French summaries)
- (with Vollset, Stein E.; Reis, Isildinha M.; Affifi, Abdelmonem A.). Exact tests for interaction in several 2×2 tables. (English summary) **97g:62101**
- Hung, Hin-Yan. *see* Poon, Wai-Yin
- Hutson, Alan D. *see* Mudholkar, Govind S.
- Kim, Donguk (with Agresti, Alan). Nearly exact tests of conditional independence and marginal homogeneity for sparse contingency tables. (English summary)
- Lang, Joseph B. Maximum likelihood methods for a generalized class of log-linear models. (English summary) **97f:62101**
- Liu, I-Ming (with Agresti, Alan). Mantel-Haenszel-type inference for cumulative odds ratios with a stratified ordinal response. (English and French summaries)
- Mudholkar, Govind S. (with Hutson, Alan D.). Continuity corrected approximations for "exact" inference with Pearson's χ^2 . (English summary)
- Poon, Wai-Yin (with Hung, Hin-Yan). Analysis of square tables with ordered categories. (English summary)
- Rayner, J. C. W. (with Best, D. J.). Smooth extensions of Pearson's product moment correlation and Spearman's rho. (English summary) **97f:62067**
- *see also* Best, D. J.
- Reis, Isildinha M. *see* Hirji, Karim F.; et al., **97g:62101**
- van de Ven, R. (with Weber, N. C.). Log-linear models for mean and dispersion in mixed Poisson regression models. (English summary) **97a:62127**
- Vollset, Stein E. *see* Hirji, Karim F.; et al., **97g:62101**
- Weber, N. C. *see* van de Ven, R., **97a:62127**
- Yamamoto, Kazuo. Beyond Simpson's paradox: a descriptive approach. (English summary)
- Ye, Qian. *see* Dong, Jianping, **97g:62099**
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- Dellaportas, P. *see* Kokolakis, G. E., (**97f:62001**)
- Haber, Michael. On the expected significance probabilities and Bahadur efficiencies of tests for comparing two binomial proportions. (English summary) **97a:62040**
- Kokolakis, G. E. (with Dellaportas, P.). Hierarchical modelling for classifying binary data. (English summary) (*see* **97f:62001**)
- Lang, Joseph B. On the comparison of multinomial and Poisson log-linear models. (English summary) **97b:62114**
- Lesaffre, Emmanuel. *see* Rudolfer, Stephan M.; et al.
- Rudolfer, Stephan M. (with Watson, Peter C.; Lesaffre, Emmanuel). Are ordinal models useful for classification? A revised analysis. (English summary)
- Watson, Peter C. *see* Rudolfer, Stephan M.; et al.

62H20 Measures of association (correlation, canonical correlation, etc.)

- Albers, Willem (with Teulings, M. F.). A simple estimator for correlation in incomplete data. (English summary)
- Alvo, Mayer (with Cabilio, Paul). Rank correlation methods for missing data. (English and French summaries) **97c:62134**
- Cabilio, Paul. *see* Alvo, Mayer, **97c:62134**
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- Dhanda, M. *see* Kapur, J. N.
- Giovagnoli, Alessandra (with Wynn, Henry P.). Multivariate dispersion orderings. (English summary) **97c:62135**
- Holmquist, Björn. Expectations of products of quadratic forms in normal variables. (English summary) **97f:62102**
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- Kapur, J. N. (with Dhanda, M.). On a family of normalised measures of interdependence. (English summary)
- Kim, Tae-Sung (with Lee, Young Ro). A partial ordering of weak positive quadrant dependence. (English summary) **97m:62059**

- Krajka, Andrzej (with Szyal, Dominik) On Q -covariance and its applications. (English summary) 97c:62136
 — (with Szyal, Dominik) On measuring the dependence of uncorrelated random variables. (English summary) 97c:62102
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 Yang, Xue Feng² see Zhu, Xian Hai
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- Chen, Jianbao (with Chen, Tao) Assessment of local influence for generalized correlation coefficients. (English summary) 97f:62054
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 Chen, Yong Yi² (with Liu, Xiao Ming¹) Multivariate exponential distributions. (Chinese. English and Chinese summaries)
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62H25 Factor analysis and principal components; correspondence analysis

- Aguilera Del Pino, Ana Ma. (with Gutiérrez Jáimez, Ramón; Valderrama Bonnet, Mariano J.) Approximation of estimators in the PCA of a stochastic process using B -splines. (English summary)
 Amenta, P. (with Lombardo, Rosaria) Estimation of the stability of constrained factorial analysis by permutation tests in three-way data sets. (English summary) (see 97f:00010)
 Bentler, P. M. (with Yuan, Ke-Hai) Test of linear trend in eigenvalues of a covariance matrix with application to data analysis. (English summary)
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- Cavaliere, Giuseppe Determination of the number of factors in the presence of correlated error terms. (Italian. English and Italian summaries) 97c:62104
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62H30 Classification and discrimination; cluster analysis [see also 68T10]

- Ambroise, Christophe (with Govaert, Gérard) Constrained clustering and Kohonen self-organizing maps. (English summary)
 Aprausheva, N. N. ★ Новый подход к обнаружению кластеров. (Russian. Russian summary) [A new approach to the detection of clusters]
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- Celeux, Gilles (with Soromenho, Gilda) An entropy criterion for assessing the number of clusters in a mixture model. (English and French summaries)
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- El Khattabi, Sana (with Streit, Franz) Identification analysis in directional statistics. (English summary)
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- Granville, V. see Rasson, J. P.
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- Johnson, Richard A. (with Mouhab, Abderrahmane) A Bayesian decision theory approach to classification problems. (English summary) 97a:62132
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Conference:

International Federation of Classification Societies ★ New approaches in classification and data analysis.

New approaches in classification and data analysis ★ New approaches in classification and data analysis.

Paris ★ New approaches in classification and data analysis.

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- Anulova, S. V. (with Fischer, Paul; Pölt, Stefan; Simon, Hans Ulrich) Probably almost Bayes decisions. (English summary) 97f:68171
- Bafna, Vineet see Agarwala, Richa; et al., 97c:92009
- Boros, Endre (with Hwang, Frank K.) Optimality of nested partitions and its application to cluster analysis. (English summary) 97c:05028
- Devroye, Luc (with Györfi, László; Lugosi, Gábor) ★ A probabilistic theory of pattern recognition. (English summary) 97d:68196
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- Gras, R. (with Ratsimba-Rajohn, H.) Analyse non symétrique de données par l'implication statistique. (English and French summaries) [Nonsymmetric data analysis using statistical implication]
- Györfi, László see Devroye, Luc; et al., 97d:68196
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- Kebagias, Athanasios Bayesian classification of hidden Markov models. (English summary) 97a:62184
- Kohonen, Teuvo ★ Self-organizing maps. (English summary) 97c:68134
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- Mouhab, Abderrahmane (with Johnson, Richard A.) Multiple category screening procedures. (English summary) (see 97a:62029)
- Narayanan, Babu O. see Agarwala, Richa; et al., 97c:92009
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- Kim, Hyuk Joo** *see* **Khuri, André I.; et al.**
- Kshirsagar, Anant M.** (with Cheng, Joanna Chung-In) A new measure of rotatability of response surface designs. (English summary)
- Lee, Min Soo** *see* **Park, Sung Hyun**, **97c:62182**
- Lia, Dennis K. J.** *see* **Deng, Lih-Yuan; et al.**, **97g:62143**
- Na, Ho-Jun** *see* **Jang, Dae-Heung**, **97c:62181**
- Narasimham, V. L.** *see* **Anjaneyulu, G. V. S. R.; et al.**
- Nguyen, Nam-Ky** A note on the construction of near-orthogonal arrays with mixed levels and economic run size. (English summary)
- Park, Sung Hyun** (with Lee, Min Soo) Slope-rotatability over all directions in third order response surface models. (English summary) **97c:62182**
- Piper, F. C.** *see* **Jarrett, R. G.; et al.**
- Plaskota, Leszek** How to benefit from noise. (English summary) **97c:62183**
- Pukelsheim, Friedrich** *see* **Ying, Lisa H.; et al.**, **97f:62126**
- Rosenbaum, Paul R.** Sensitivity analysis for two control groups. (English summary) **97g:62144**
- Shalkin, M. E.** Analysis of the covariance structure for a class of combinatorial observation schemes. (Russian. Russian summary)
- Um, Yonghwan** *see* **Khuri, André I.; et al.**
- Varma, D. N.** *see* **Anjaneyulu, G. V. S. R.; et al.**
- Wang, Jiannong** *see* **Deng, Lih-Yuan; et al.**, **97g:62143**
- Wang, Jung Chao** Mixed difference matrices and the construction of orthogonal arrays. (English summary) **97d:62172**
- Wild, Peter R.** *see* **Jarrett, R. G.; et al.**
- Ying, Lisa H.** (with Pukelsheim, Friedrich; Draper, Norman R.) Slope rotatability over all directions designs. (English summary) **97f:62126**

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- Cheng, Yi** Multistage decision problems. (English summary) **97a:62175**
- Coakley, Clint W.** *see* **Mill, Lamine**, **97k:62066**
- Cowan, Richard** *see* **Yu, Philip L. H.**, **97b:62117**
- Ermakov, S. M.** (with Melas, V. B.) ★ Design and analysis of simulation experiments. (English summary) **97g:65018**
- Felsenstein, Klaus** ★ Bayes'sche Statistik für kontrollierte Experimente. (German. English, French and German summaries) [Bayesian statistics for controlled experiments] **97b:62003**
- Malyutov, M. B.** (with Wynn, Henry P.) Sequential screening of significant variables of an additive model. (English summary) **97a:62176**
- Melas, V. B.** *see* **Ermakov, S. M.**, **97g:65018**
- Mill, Lamine** (with Coakley, Clint W.) Robust estimation in structured linear regression. (English summary) **97k:62066**
- O'Geran, J. H.** (with Wynn, Henry P.; Zhiglavskii, A. A.) Rényi-type randomization theory for search-length upper bounds. (English summary) **97b:90066**
- Wynn, Henry P.** *see* **Malyutov, M. B.**, **97a:62176** and **O'Geran, J. H.; et al.**, **97b:90066**
- Yu, Philip L. H.** (with Cowan, Richard) A statistical model for duplicate tournaments in games of luck and skill. (English summary) **97b:62117**
- Zhiglavskii, A. A.** *see* **O'Geran, J. H.; et al.**, **97b:90066**

62Lxx Sequential methods

62L05 Sequential design

- Chattopadhyay, Manas K.** A note on Dirichlet one-armed bandits. (English summary) **97c:62184**
- Cheng, Yi** Multistage decision problems. (English summary) **97a:62175**
- Donegan, Kevin** Some optimal allocation problems for finding the slipped population. (English summary) **97f:62127**

- Katehakis, Michael N.** (with Rothblum, Uriel G.) Finite state multi-armed bandit problems: sensitive-discount, average-reward and average-overtaking optimality. (English summary) **97j:62114**
- Malyutov, M. B.** (with Wynn, Henry P.) Sequential screening of significant variables of an additive model. (English summary) **97a:62176**
- Rekab, Kamel** Sequential allocation for a nonlinear estimation problem. (English summary) (see **97a:00029**)
- Rothblum, Uriel G.** see **Katehakis, Michael N.**, **97j:62114**
- Thron, Christopher P.** "Decisions, decisions": the bandit model for decision processes, optimal strategy, and computer implementation. (English summary) **97g:62145**
- Wiens, Douglas P.** Robust sequential designs for approximately linear models. (English and French summaries) **97a:62177**
- Wynn, Henry P.** see **Malyutov, M. B.**, **97a:62176**
- Zoubeldi, Toufik** Efficient allocations in group sequential tests. (English summary) **97k:62163**

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- Bandyopadhyay, Uttam** (with Biswas, Atanu) Delayed response in randomized play-the-winner rule: a decision-theoretic outlook. (English summary) **97b:62085**
- Biswas, Atanu** see **Bandyopadhyay, Uttam**, **97b:62085**
- Datta, Somnath** Consistency of the MLE for a general sequential design problem. (English summary) **97d:62047**
- Hamada, Toshio** An exponential two-armed bandit problem with one arm known under batch sampling. (English summary) **97a:90108**
- Kaspi, Haya** (with Mandelbaum, Avishai; Vanderbei, Robert J.) Bandit processes: control, analysis and characterization. (English summary) (see **97g:90072**)
- Mandelbaum, Avishai** see **Kaspi, Haya**; et al., **(97g:90072)**
- Odlyzko, Andrew** Search for the maximum of a random walk. (English summary) **97b:60117**
- Plaskota, Leszek** How to benefit from noise. (English summary) **97c:62183**
- Vanderbei, Robert J.** see **Kaspi, Haya**; et al., **(97g:90072)**

62L10 Sequential analysis

- Bandyopadhyay, Uttam** (with Biswas, Atanu) Delayed response in randomized play-the-winner rule: a decision-theoretic outlook. (English summary) **97b:62085**
- (with Biswas, Atanu) Sequential comparison of two treatments in clinical trials: a decision-theoretic approach based on randomized play-the-winner rule. (English summary) **97m:62078**
- Beibel, M.** A note on Ritov's Bayes approach to the minimax property of the cusum procedure. (English summary) **97b:62086**
- Bhattacharya, Prodyot Kumar** (with Zhou, Hong) A generalized CUSUM procedure for sequential detection of change-point in a parametric family when the initial parameter is unknown. (English summary) **97k:62164**
- Biswas, Atanu** see **Bandyopadhyay, Uttam**, **97b:62085** and **97m:62078**
- Boys, R. J.** (with Glazebrook, K. D.; Laws, D. J.) A class of Bayes-optimal two-stage screens. (English summary) **97b:62066**
- see also **Glazebrook, K. D.**, **97b:62165**
- Chichagov, V. V.** On some applications of Poisson random walk plans. (English summary) **97g:62146**
- Clayton, Murray K.** see **Yue, Jack C.**, **97g:62148**
- Daniels, Henry E.** Approximating the first crossing-time density for a curved boundary. (English summary) **97d:62173**
- DasGupta, Anirban** see **Oh, Hyun Sook**, **97b:62128**
- DeMets, David L.** see **Gange, Stephen J.**, **97d:62174**
- El Aroui, Mohamed-All** Un test préférentiel d'adéquation pour la loi exponentielle. (English and French summaries) [A prequential goodness-of-fit test for the exponential distribution] **97b:62067**
- Gange, Stephen J.** (with DeMets, David L.) Sequential monitoring of clinical trials with correlated responses. (English summary) **97d:62174**
- Glaz, Joseph** (with Kenyon, James R.) Approximating the characteristics of sequential tests. (English summary) **97c:62185**
- Glazebrook, K. D.** (with Boys, R. J.) A class of Bayesian models for optimal exploration. (English summary) **97k:62165**
- see also **Boys, R. J.**; et al., **97b:62066**
- Hardwick, Janis P.** (with Stout, Quentin F.) Optimal allocation for estimating the mean of a bivariate polynomial. (English summary) **97m:62066**
- Hwang, Jing-Shiang** Numerical solutions for a sequential approach to bioequivalence. (English summary)
- Kenyon, James R.** see **Glaz, Joseph**, **97c:62185**
- Laws, D. J.** see **Boys, R. J.**; et al., **97b:62066**
- Liu, Wei⁴** The construction of upper confidence bounds on the range of several location parameters following a sequential range test. (English summary) **97f:62087**
- Nanthakumar, A.** (with Selvaivel, K.) Sequential estimation of parameters in one-truncation parameter families under type II censoring. (English summary) **97m:62079**
- Oh, Hyun Sook** (with DasGupta, Anirban) Efficiency and minimaxity of Bayes sequential procedures in simple versus simple hypothesis testing for general nonregular models. (English summary) **97f:62128**
- Pak, Ro Jin** More informative sequential probability ratio test. (Korean. English and Korean summaries) **97k:62166**
- Rouder, Jeffrey N.** Premature sampling in random walks. (English summary) **97b:62088**
- Selvaivel, K.** see **Nanthakumar, A.**, **97m:62079**
- Stout, Quentin F.** see **Hardwick, Janis P.**
- Stute, Winfried** The sequential probability ratio test under random censorship. (English summary) **97b:62068**
- Tartakovsky, A. G.** Asymptotic properties of CUSUM and Shiryaev's procedures for detecting a change in a nonhomogeneous Gaussian process. (English summary) **97b:62126**
- Terveer, Ingolf** Bayesian sequentially planned tests of simple hypotheses: contractivity and an iterative approach. (English summary) **97g:62147**
- Vakhobov, V.** Asymptotic properties of the optimal parameters of Bayesian double decision rules with two decisions. (Russian. English and Uzbek summaries) **97f:62129**
- Vaman, H. J.** Sequential detection of change-point: some optimality considerations. (English summary) **97a:62178**
- Wan, Fang Huan** (with Wu, Xizhi) A direct approach to a Bayesian sequential test for a normal mean. (English summary) **97a:62179**
- Wang, Mei** Limit theorems on occupation times for perturbed random walks. (English summary) **97k:62167**
- Wu, Xizhi** see **Wan, Fang Huan**, **97a:62179**
- Xiong, Xiaoping** Absorption probability distributions of random paths from finite populations. (English summary) **97d:62175**
- Yakir, Benjamin** A lower bound on the ARL to detection of a change with a probability constraint on false alarm. (English summary) **97f:62130**
- Dynamic sampling policy for detecting a change in distribution, with a probability bound on false alarm. (English summary) **97m:62080**
- Yue, Jack C.** (with Clayton, Murray K.) Bayesian sequential tests for comparing the number of species in two populations. (English summary) **97g:62148**
- Zhou, Hong** see **Bhattacharya, Prodyot Kumar**, **97k:62164**

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- Bandyopadhyay, Uttam** (with Biswas, Atanu) Sequential-type nonparametric tests for ordered bivariate alternatives. (English summary) **97d:62086**
- Biswas, Atanu** see **Bandyopadhyay, Uttam**, **97d:62086**
- Brodek, B. E.** Asymptotically optimal methods in the problem of the fastest detection of change. I. Characteristics of methods for the fastest detection of change. (Russian. Russian summary) **97g:62082**
- Asymptotically optimal methods in the problem of the fastest detection of change. II. Investigation of fastest detection methods. (Russian. Russian summary) **97g:62083**
- Chang, I-Shou** (with Hsiung, Chao Agnes; Liu, Jeng-Fu) Time-sequential tests by Poisson approximation. (English summary) **97b:62088**
- Chaturvedi, Ajit** (with Gupta, Rahul) On multi-stage procedures for estimating the largest mean of k normal populations having unequal and unknown variances. (English summary) **97j:62027**
- DeLucia, James** (with Poor, H. Vincent) Performance analysis of sequential tests between Poisson processes. (English summary) **97b:62073**
- Gal'chuk, L. I.** (with Malyutov, M. B.) One bound for the mean duration of sequential testing homogeneity. (English summary) **97c:62077**
- Gombay, Edit** The weighted sequential likelihood ratio. (English and French summaries) **97g:62026**
- Govindarajulu, Z.** A note on two-stage fixed-width interval estimation procedure for normal variance. (English summary) **97g:62149**
- Greenshtein, Eitan** Comparison of sequential experiments. (English summary) **97b:62011**
- Gupta, Rahul** see **Chaturvedi, Ajit**, **97j:62027**
- Hsiung, Chao Agnes** see **Chang, I-Shou**; et al., **97b:62088**
- Kerestecioglu, Feza** (with Zarrop, Martin B.) Sequential analysis of stationary autoregressive processes. (English and Turkish summaries) **97a:62198**
- Kogan, Joseph A.** Hidden Markov models estimation via the most informative stopping times for the Viterbi algorithm. (English summary) (see **97i:00014**)
- Lai, Tze Leung** see **de la Peña, Victor H.**, **97c:60076**
- Liu, Jeng-Fu** see **Chang, I-Shou**; et al., **97b:62088**
- Malyutov, M. B.** see **Gal'chuk, L. I.**, **97c:62077**
- Pavlov, I. V.** A lower bound for the mean size of a learning sample for sequential pattern recognition procedures. (Russian) **97g:68198**
- de la Peña, Victor H.** (with Lai, Tze Leung) Wald's equation and asymptotic bias of randomly stopped U -statistics. (English summary) **97c:60076**
- Poor, H. Vincent** see **DeLucia, James**, **97b:62073**
- Rekab, Kamel** Sequential allocation for a nonlinear estimation problem. (English summary) (see **97a:00029**)
- Sedransk, J.** see **Treder, R. P.**, **97a:62019**
- Srivastava, M. S.** Comparison of CUSUM and EWMA procedures for detecting a shift in the mean or an increase in the variance. (English summary) **97c:62244**
- (with Wu, Yanhong) Economical quality control procedures based on symmetric random walk model. (English summary) **97k:62211**
- Treder, R. P.** (with Sedransk, J.) Bayesian sequential two-phase sampling. (English summary) **97a:62019**
- Wu, Yanhong** see **Srivastava, M. S.**, **97c:62211**
- Zarrop, Martin B.** see **Kerestecioglu, Feza**, **97a:62198**
- Zoubeldi, Toufik** Efficient allocations in group sequential tests. (English summary) **97k:62163**

62L12 Sequential estimation

- Akaira, Masafumi** The Bhattacharyya type bound for the asymptotic variance and the sequential discretized likelihood estimation procedure. (English summary) **97c:62186**
- (with Koike, Ken-ichi) Properties of statistical sequential decision methods. (Japanese) **97c:62105**
- see also **Koike, Ken-ichi**, **97c:62107**
- Al-Mahmoud, M.** see **Hamdy, H. I.**; et al., **97c:62106**
- Al-Zalzala, Y.** see **Hamdy, H. I.**; et al., **97c:62106**
- Aoshima, Makoto** (with Hyakutake, Hiroto; Dudewicz, Edward J.) An asymptotically optimal fixed-width confidence interval for the difference of two normal means. (English summary) **97f:62131**
- see also **Hyakutake, Hiroto**; et al., **97f:62132** and **Takada, Yoshikazu**, **97g:62150**
- Bose, Arup** (with Boukai, Ben Zion) Bias corrected sequential estimation for the mean of NEF-PVF distributions. (English summary) **97j:62115**
- (with Mukhopadhyay, Nitis) Sequential interval estimation via replicated piecewise stopping times and accelerated stopping times in a class of two-parameter exponential family of distributions. (English summary) **97k:62168**
- (with Mukhopadhyay, Nitis) Sequential estimation of the mean of an exponential distribution via replicated piecewise stopping number. (English summary) **97d:62176**

- Boukai, Benzon** (with Sarkar, Jyotirmoy) An accelerated bias-corrected sequential estimation for the mean of NEF-PVF distributions. (English summary) **97k:62169**
— see also **Bose, Arup**, **97j:62115**
- Chang, Yuan-chia Ivan** Sequential fixed size confidence regions for regression parameters in generalized linear models. (English summary) **97k:62170**
- Chaturvedi, Ajit** (with Gupta, Rahul) Second-order approximations to sequential estimation of the largest of k -normal means: covering the case when the variances are unequal and unknown. (English summary) **97c:62187**
— (with Gupta, Rahul) Second-order approximations to two classes of sequential estimation procedures. (English summary) **97c:62188**
- Christman, Mary C.** Further aspects of sequential unbiased estimation of the number of classes. (English summary) **97k:62171**
- Coad, D. S.** (with Woodroffe, Michael) Corrected confidence intervals after sequential testing with applications to survival analysis. (English summary) **97k:62172**
- Datta, Sujay** see **Mukhopadhyay, Nitis**, **97d:62178** and **97d:62179**
- Dudewicz, Edward J.** see **Aoshima, Makoto**; et al., **97c:62131**
- Geertsema, J. C.** Asymptotic robustness of sequential confidence intervals and the connection with influence functions. (English summary) **97k:62173**
- Govindarajulu, Z.** A note on two-stage fixed-width interval estimation procedure for normal variance. (English summary) **97g:62149**
- Gupta, Rahul** see **Chaturvedi, Ajit**, **97c:62187** and **97c:62188**
- Hamdy, H. I.** (with Al-Mahmoud, M.; Al-Zalzala, Y.) A certain accelerating sequential procedure to construct simultaneous confidence region: the exponential case. (English summary) **97c:62106**
- Hyakutake, Hiroto** (with Takada, Yoshikazu; Aoshima, Makoto) Fixed-size confidence regions for the multinomial mean in an intraclass correlation model. **97f:62132**
— see also **Aoshima, Makoto**; et al., **97f:62131**
- Kim, Sung Lai** Asymptotic properties of the stopping times in a certain sequential procedure. (English summary) **97c:62189**
- Kolke, Ken-ichi** (with Akahira, Masafumi) Inequalities for Bhattacharyya-type information in sequential estimation. (Japanese) **97c:62107**
— see also **Akahira, Masafumi**, **97c:62105**
- Konev, V. V.** (with Pergamenschikov, Sergei) Guaranteed estimation of autoregression parameters based on the sequential correlation method. (Russian) **97c:62190**
— (with Lai, Tze Leung) Estimators with prescribed precision in stochastic regression models. (English summary) **97b:62127**
- Lai, Tze Leung** On uniform integrability and asymptotically risk-efficient sequential estimation. (English summary) **97m:62081**
— see also **Konev, V. V.**, **97b:62127**
- Li, Shouye** see **Wei, Bo Cheng**, **97b:62128**
- Maluyutov, M. B.** (with Orna Uaraka, L. A.; Spokoiny, V. G.) On the properties of estimators in the sequential design of an experiment. (Russian) **97j:62116**
- Martinek, Adam T.** Estimating a slope parameter in regression with prescribed proportional accuracy. (English summary) **97c:62191**
— see also **Xu, Yi**, **97f:62134**
- Mita, Haruyoshi** Tail probability of the sequential maximum likelihood estimator for the exponential class. (English summary) **97c:62108**
- Mizera, Beata** Lower bounds on the minimax risk of sequential estimators. (English summary) **97k:62174**
- Mukhopadhyay, Nitis** Sequential estimation of means of linear processes. (English summary) **97d:62177**
— (with Datta, Sujay) On fine-tuning a purely sequential procedure and associated second-order properties. (English summary) **97d:62178**
— (with Datta, Sujay) On fine-tuned bounded risk sequential point estimation of the mean of an exponential distribution. (English summary) **97d:62179**
— see also **Bose, Arup**, **97d:62176** and **97k:62168**
- Nagao, Hisao** Sequential fixed-width confidence bounds for some subset of parameters. (English summary) **97f:62133**
— On fixed width confidence regions for multivariate normal mean when the covariance matrix has some structure. (English summary) **97d:62180**
- Orna Uaraka, L. A.** see **Maluyutov, M. B.**; et al., **97j:62116**
- Pergamenschikov, Sergei** see **Konev, V. V.**, **97c:62190**
- Rahbar, Mohammad H.** Sequential fixed width confidence intervals for regression parameters from censored data with a discrete covariate. (English summary) **97d:62181**
- Sarkar, Jyotirmoy** see **Boukai, Benzon**, **97k:62169**
- Schmitz, Norbert** Short note: STEIN's two-stage procedure for the intra-class model. **97d:62182**
- Spokoiny, V. G.** see **Maluyutov, M. B.**; et al., **97j:62116**
- Tahir, Mohamed** On the asymptotic regret of a sequential procedure for estimating the mean of a normal distribution. (English summary) **97a:62180**
- Takada, Yoshikazu** (with Aoshima, Makoto) Two-stage procedures for the difference of two multinomial means with covariance matrices different only by unknown scalar multipliers. (English summary) **97g:62150**
— see also **Hyakutake, Hiroto**; et al., **97f:62132**
- Vogt, Herbert** The average number of events per time unit and its estimation. (English summary) **97k:62175**
- Wei, Bo Cheng** (with Li, Shouye) Geometric method of sequential estimation related to multinomial distribution models. (English summary) **97b:62128**
- **Woodroffe, Michael** see **Coad, D. S.**, **97k:62172**
- Xu, Yi** (with Martinek, Adam T.) Sequential confidence bands for densities. (English summary) **97f:62134**

Items with secondary classifications in 62L12

- Krasil'shchikov, M. N.** see **Zonov, N. I.**, **97g:93076**
- Lai, Tze Leung** see **de la Peña, Victor H.**, **97c:60076**
- Nanthakumar, A.** (with Selvavel, K.) Sequential estimation of parameters in one-truncation parameter families under type II censoring. (English summary) **97m:62079**
- de la Peña, Victor H.** (with Lai, Tze Leung) Wald's equation and asymptotic bias of randomly stopped U -statistics. (English summary) **97c:60076**
- Selvavel, K.** see **Nanthakumar, A.**, **97m:62079**

Wang, Mei (with Woodroffe, Michael) A uniform renewal theorem. (English summary) **97d:60140**

Woodroffe, Michael see **Wang, Mei**, **97d:60140**

Zonov, N. I. (with Krasil'shchikov, M. N.) A system of recurrent Bayesian estimation algorithms that are adaptive to different kinds of uncontrollable factors. II. Algorithms for determining the statistical characteristics of the errors of models of the process being estimated. (Russian. Russian summary) **97g:93076**

62L15 Optimal stopping [see also 60G40, 90D60]

- Bather, John** Poisson search models and the evaluation of stopping rules. (English summary) **97c:62192**
- Dragalin, Vladimir** Optimality of a generalized algorithm for cumulative sums in the problem of the quickest detection of a change point. (Russian) **97g:62151**
- Govindarajulu, Z.** On certain nonlinear difference and differential equations arising from optimal choice problems. (English summary) (see **97a:00029**)
- Lee, Shen-Ming** Approximations to optimal stopping rules for normal random variables with unknown mean and variance. (English summary) **97c:62193**
- Zacks, Shlomo** Sequential testing of reliability system with change points. (English summary) **97c:62194**
— Sequential procedures in software reliability testing. (English summary) **97f:62135**

Items with secondary classifications in 62L15

- Ano, Katsunori** Optimizing multiple selections with sequential observations. (English summary) **97c:60111**
— (with Tamaki, Mitsushi; Hu, MuCi) A secretary problem with uncertain employment when the number of offers is restricted. (English summary) **97c:60074**
- Assaf, David** (with Samuel-Cahn, Ester) The secretary problem: minimizing the expected rank with i.i.d. random variables. (English summary) **97f:60089**
- Beibel, M.** A note on Ritov's Bayes approach to the minimax property of the cusum procedure. (English summary) **97c:62086**
- Beleva, Marianna D.** Controlled Wiener process by external interventions minimizing the average time with a drift. (English summary) **97k:60215**
- Cairol, R.** (with Dalang, Robert C.) Optimal switching between two random walks. (English summary) **97f:60053**
— (with Dalang, Robert C.) ★ Sequential stochastic optimization. (English summary) **97d:60078**
- Chong, Edwin K. P.** see **Wang, I-Jeng**; et al., **97k:62176**
- Clayton, Murray K.** see **Yue, Jack C.**, **97g:62148**
- Dalang, Robert C.** see **Cairol, R.**, **97d:60078** and **97f:60053**
- Datta, Sujay** see **Mukhopadhyay, Nitis**, **97d:62178**
- Girlich, Hans-Joachim** (with Worku, A.) Sensitivity of the Gittins index in the continuous time two-armed bandit problem. (English summary) **97f:60099**
- Guedin, A. V.** (with Krenzel, Ulrich) Optimal selection problems based on exchangeable trials. (English summary) **97c:60075**
- Hu, MuCi** see **Ano, Katsunori**; et al., **97c:60074**
- Irie, A.** Asymptotically optimal stopping rules in the presence of unknown parameters. (English summary) **97k:60124**
- Krenzel, Ulrich** see **Guedin, A. V.**, **97c:60075**
- Kulkarni, Sanjeev R.** see **Wang, I-Jeng**; et al., **97k:62176**
- Lee, Shen-Ming** (with Yeh, Tzu-Sheng) Approximations to optimal stopping rules for gamma random variables with unknown scale parameter. (English summary) **97f:60076**
- Li, Ya** see **Luo, Jian Shu**
- Luo, Jian Shu** (with Li, Ya) Secretary problems with payoff in inverse ratio to the absolute rank. (Chinese. English and Chinese summaries)
- Mukhopadhyay, Nitis** (with Datta, Sujay) On fine-tuning a purely sequential procedure and associated second-order properties. (English summary) **97d:62178**
- Samuel-Cahn, Ester** Optimal stopping with random horizon with application to the full-information best-choice problem with random freeze. (English summary) **97c:60077**
— see also **Assaf, David**, **97f:60089**
- Tamaki, Mitsushi** see **Ano, Katsunori**; et al., **97c:60074**
- Vaman, H. J.** Sequential detection of change-point: some optimality considerations. (English summary) **97a:62178**
- Wang, I-Jeng** (with Chong, Edwin K. P.; Kulkarni, Sanjeev R.) Equivalent necessary and sufficient conditions on noise sequences for stochastic approximation algorithms. (English summary) **97k:62176**
- Wittmann, Rainer** Superprophet inequalities for independent random variables. (English summary) **97k:60128**
- Worku, A.** see **Girlich, Hans-Joachim**, **97f:60099**
- Yeh, Tzu-Sheng** see **Lee, Shen-Ming**, **97f:60076**
- Yeo, Anders** (with Yeo, Geoffrey F.) Selecting satisfactory secretaries. (English summary) **97a:60064**
- Yeo, Geoffrey F.** see **Yeo, Anders**, **97a:60064**
- Yue, Jack C.** (with Clayton, Murray K.) Bayesian sequential tests for comparing the number of species in two populations. (English summary) **97g:62148**

62L20 Stochastic approximation

- Benaim, Michel** (with Hirsch, Morris W.) Dynamics of Morse-Smale urn processes. (English summary) **97f:62138**
— A dynamical system approach to stochastic approximations. (English summary) **97d:62183**
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Conference:

- American Statistical Association ★ 1995 Proceedings of the Section on Physical and Engineering Sciences.
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Meeting:

- American Statistical Association ★ 1995 Proceedings of the Section on Physical and Engineering Sciences.
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62Pxx Applications [see also 90–XX, 92–XX]

62P05 Applications to actuarial sciences and financial mathematics

- Aase, Kaut K. A model for loss of profits insurance. (English summary) 97a:62221
 Bäuerle, Nicole Some results about the expected ruin time in Markov-modulated risk models. (English summary) 97b:62090
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 Broffitt, James D. On smoothness terms in multidimensional Whittaker graduation. (English summary) 97k:62212
 Bühlmann, Hans ★ Mathematical methods in risk theory. 97k:62213
 — *see also* Gerber, Hans U., 97k:62215
 (Cox, Samuel H.) *see* Gerber, Hans U., 97k:62215
 Dannenberg, Dennis Bühlmann's credibility premium in the Bühlmann-Straub model. (English, French and German summaries)
 Dargahi-Noubary, G. R. *see* Nanthakumar, A.
 Delbaen, Freddy *see* De Schepper, Ann; et al., 97k:62214
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- Asmussen, Søren (with Nielsen, Hanne Mandrup) Ruin probabilities via local adjustment coefficients. (English summary) 97d:60050
 — (with Kella, Offer) Rate modulation in dams and ruin problems. (English summary) 97b:60120
 — (with Bladt, Mogens) Phase-type distributions and risk processes with state-dependent premiums. (English summary) 97b:60153
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- Andrews, N. J. see Farrington, C. P.; et al.
 Arnason, A. Neil see Schwarz, Carl James
 Asselain, Bernard see Quantin, Catherine; et al.
 Barry, Daniel A Bayesian model for growth curve analysis. (English and French summaries) 97c:62250
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- Röhmert, Joachim Precision intervals for estimates of the difference in success rates for binary random variables based on the permutation principle. (English summary) *97b:62167*
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- Smith, Woolcott (with Solow, Andrew R.) An exact McNemar test for paired binary Markov chains. (English and French summaries)
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- Tsiatis, Anastasios A. see Lee, Sandra J.; et al. and Wulfsohn, Michael S.
- Utzet, Frederic see Sanchez, Alex; et al. *97b:62167*
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- Walker, Stephen Graham (with Wakefield, J. C.) Bayesian approaches to the population modelling of a monotonic dose-response relation. (English summary) (see *97f:62001*)
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- Wang, Naisyin see Eckert, R. Stephen; et al.
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- Barnett, Glen (with Kohn, Robert Jacob; Sheather, Simon J.) Bayesian estimation of an autoregressive model using Markov chain Monte Carlo. (English summary) *97f:62046*
- Berry, D. A. (with Thor, A.; Cirrincione, C.; Edgerton, S.; Muss, H.; Marks, Jeffrey R.; Liu, E.; Wood, W.; Budman, D.; Perloff, M.; Peters, William P.; Henderson, I. C.) Scientific inference and predictions: multiplicities and convincing stories: a case study in breast cancer therapy. (English summary) (see *97f:62001*)
- Bowman, Dale see George, E. Olusegun. *97c:62049*
- Brunner, Edgar (with Puri, Madan L.; Sun, Shan) Nonparametric methods for stratified two-sample designs with application to multiclinic trials. (English summary) *97k:62111*
- Budman, D. see Berry, D. A.; et al. *97f:62001*
- Chang, I-Shou (with Hsiung, Chao Agnes) An efficient estimator for proportional hazards models with frailties. (English summary) *97f:62159*
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- Dabrowski, Andrzej Robert (with Dehling, Herold) Estimating conditional occupation-time distributions for dependent sequences. (English and French summaries) *97a:60032*
- Dehling, Herold see Dabrowski, Andrzej Robert. *97a:60032*
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- Elaassoff, Robert M. see Leung, Moon K. *97a:62156*
- Esteban, M. D. (with Morales, Domingo) On the asymptotic optimum allocation in estimating entropies. (English summary)
- Frydman, Halina Nonparametric estimation of a Markov "illness-death" process from interval-censored observations, with application to diabetes survival data. (English summary) *97c:62072*
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- Griffiths, R. C. (with Tavaré, S.) Monte Carlo inference methods in population genetics. (English summary) *97c:92007*
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- Khonov, S. A. see Ivchenko, G. I.; et al. *97b:62027*
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- Kohn, Robert Jacob see Barnett, Glen; et al. *97f:62046*
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- Generalized linear models in biomedical applications. (English summary) *97f:62108*
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- Yip, Paul (with Lam, Kin) A nonparametric inference procedure for an illness-death model. (English summary) *97b:62029*
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62P15 Applications to psychology

- Andrich, David A hyperbolic cosine latent trait model for unfolding polytomous responses: reconciling Thurstone and Likert methodologies. (English summary)
- Asano, Chooichiro see Eshima, Nobuoki; et al.
- Batchelder, William H. see Klauer, Karl Christoph. *97a:62227*
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- Ryan, Louise M. see Sammel, Mary Dupuis. *97a:62228*
- Sammel, Mary Dupuis (with Ryan, Louise M.) Latent variable models with fixed effects. (English and French summaries) *97a:62228*
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- Tabata, Minoru see Eshima, Nobuoki; et al.
- Tesafiková, Eva Bayesian estimation of number of the questions unfamiliar with the examinee in variant I of probabilistic model of double choice test. (English summary)
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- Wasserman, Stanley (with Pattison, Philippa) Logit models and logistic regressions for social networks. I. An introduction to Markov graphs and p . (English summary)

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- ten Berge, Jos M. F. see Kiers, Henk A. L.; et al. *97g:62105*
- Grieve, Andrew P. On likelihood and Bayesian methods for interval estimation of the LD₅₀. (see *97f:62111*)
- Kiers, Henk A. L. (with Takane, Yoshio; ten Berge, Jos M. F.) The analysis of multitrait-multimethod matrices via constrained components analysis. (English summary) *97g:62105*
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62P20 Applications to economics [see also 90Axx]

- Abadir, Karim M. (with Paruolo, Paolo) Two mixed normal densities from cointegration analysis.
- Ahn, Seung C. (with Schmidt, Peter Joseph) Efficient estimation of dynamic panel data models: alternative assumptions and simplified estimation. (English summary)
- Al, Chunrong (with McFadden, Daniel) Estimation of some partially specified nonlinear models. (English summary) *97m:62094*
- Ayuda Bosque, Ma. Isabel see Aznar Grasa, Antonio
- Aznar Grasa, Antonio (with Ayuda Bosque, Ma. Isabel) The predictive stability test for choosing between econometric models. (Spanish. English and Spanish summaries)

- Bartels, Robert Henry *see* Flebig, Denzil G.; et al., 97k:62219
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- Blundell, Richard (with Magnac, Thierry; Meghir, Costas) Savings and labor-market transitions. (English summary) 97m:62095
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- Chib, Siddhartha (with Greenberg, Edward) Markov chain Monte Carlo simulation methods in econometrics. (English summary) 97k:62217
- Cribari-Neto, Francisco On the corrections to information matrix tests. (English summary)
- Critchley, Frank (with Marriott, Paul; Salmon, Mark) On the differential geometry of the Wald test with nonlinear restrictions. 97c:62254
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62Q05 Statistical tables

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65-XX Numerical analysis

65-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

- Jin, Jian-Ming *see* Zhang, Shanjie, 97m:65001
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- (Dietel, Jürgen) *see* Engeln-Möllges, Gisela, 97g:65013
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65-01 Instructional exposition (textbooks, tutorial papers, etc.)

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 Fornberg, Bengt ★ A practical guide to pseudospectral methods. 97g:65001
 Ganzha, V. G. (with Vorozhtsov, E. V.) ★ Numerical solutions for partial differential equations. 97g:65002
 Golub, Gene H. (with Ortega, James M.) ★ Scientific computing. (German) 97c:65002
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- Chang, L. H. T. (with Said, Hassan B.) Hybrid interpolation scheme with continuity of curvature. (English summary) 97c:65021
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- Chen, Qi Keith (with Babulka, Ivo M.) The optimal symmetrical points for polynomial interpolation of real functions in the tetrahedron. (English summary) 97f:65006
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- (Walter, Eric) *see* Bounding approaches to system identification, **97i:93004**
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65G99 None of the above, but in this section

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- Herzberger, Jürgen P. Berechnung der Konvergenzordnung von Folgen bei iterativen numerischen Prozessen. [Computation of the rate of convergence of sequences in iterative numerical processes] (*see* **97c:65002**)
- Higham, Nicholas J. Stability of the diagonal pivoting method with partial pivoting. (English summary) **97k:65064**
- Kim, Ik-Sung On the $L_2(\Omega)$ -error for the p -version under numerical quadrature rules. (English summary) **97m:65204**
- Lin, Qun¹ *see* Zhu, Qi Ding, **97a:65096**
- Xu, Jinchao Two-grid discretization techniques for linear and nonlinear PDEs. (English summary) **97i:65169**
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65Hxx Nonlinear algebraic or transcendental equations

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- Ammar, G. S. (with Calvetti, D.; Reichel, L.) Continuation methods for the computation of zeros of Szegő polynomials. (English summary) **97j:65081**
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- Axelsson, Owe (with Kaporin, Igor E.) On the solution of nonlinear equations for nondifferentiable mappings. (English summary) **97m:65096**
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- Zhang, Ke Cun *see* Zhang, Xi
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65H17 Eigenvalues, eigenvectors and bifurcation problems [see also 58C40, 58E07, 58F14, 90C30]

- Cong, Yu Hao *see* Zhu, Zheng You
- Du, Gonghuan *see* Qin, Tuanfa; et al.

- Feng, Guo-chen (with Wu, Wen Da; Zhang, Shu-gong) The eigenvalue problem equivalent to multivariate polynomial system. (English summary) **97a:65056**
- Gleyse, B. Sturm sequences and the number of zeros of a real polynomial in the unit disk: numerical computation. (English summary)
- Griewank, Andreas (with Reddien, G. W.) The approximate solution of defining equations for generalized turning points. (English summary) **97g:65117**
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- Liu, Xiang Dong see Zhu, Wei Yong
- Ni, Wansun see Qin, Tuanfa; et al.
- Qin, Tuanfa (with Ni, Wansun; Du, Gonghuan) Directing trajectories to targets step by step with the feedback method. (English and Chinese summaries)
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- Werner, Bodo Computation of Hopf bifurcation with bordered matrices. (English summary) **97d:65030**
- Wu, Bai-sheng (with Küpper, Tassilo) Computation of Hopf branches bifurcating from a class of Hopf/steady-state points. (English summary) **97k:65133**
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- Zhu, Wei Yong (with Liu, Xiang Dong) Computer-constructed regression analysis of the box dimensions of Julia sets. (Chinese. English and Chinese summaries)
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- Aston, Philip J. (with Sittampalam, A. Ganesh) Numerical methods for steady-state mode interactions. (English summary) **97k:58039**
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- Brown, Donald J. (with DeMarzo, Peter M.; Eaves, B. Curtis) Computing zeros of sections of vector bundles using homotopies and relocalization. (English summary) **97e:65054**
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- Chen, Wen¹ (with Zhong, Tingxiu) The study on the nonlinear computations of the DQ and DC methods. (English summary) **97f:65087**
- DeMarzo, Peter M. see Brown, Donald J.; et al., **97e:65054**
- Eaves, B. Curtis see Brown, Donald J.; et al., **97e:65054**
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- Gudets, O. see Bula, Ján; et al.
- Li, Yong² see Lu, Xi Guan; et al., **97j:65088**
- Lu, Xi Guan (with Li, Yong²; Su, Yi) Finding periodic solutions of ordinary differential equations via homotopy method. (English summary) **97j:65088**
- Lukács, Gábor Loop detection via homotopy continuation. (English summary) **97k:65134**
- Shimasaki, Masaaki Convergence analysis for two eigenvalue problems based on the homotopy method. (Japanese) (see **97f:65003**)
- Sosonkina, Maria (with Watson, Layne T.; Stewart, David E.) Note on the end game in homotopy zero curve tracking. (English summary) **97f:65095**
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- Brühl, Martin A curve tracing algorithm for computing the pseudospectrum. (English summary) **97d:65016**
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- Han, Bo (with Xiao, De Shan; Liu, Jia Qi) A widely convergent method for solving the inverse problem of the two-dimensional wave equation. (Chinese. English and Chinese summaries) **97e:65156**
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65H99 None of the above, but in this section

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- Alefeld, Götz E. (with Potra, Florian A.; Völker, Wolfgang) Effective improvements of the interval-Newton-method. (see **97a:65005**)
- Björck, Åke ★ Numerical methods for least squares problems. (English summary) **97g:65004**
- Kalantari, Bahman (with Kalantari, I.) High order iterative methods for approximating square roots. (English summary) **97k:65039**
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- Luther, Wolfram (with Otten, Werner) The complex arithmetic-geometric mean and multiple-precision matrix functions. (English summary) (see **97a:65005**)
- Ma, Xiao Fang (with Zhao, Ying Liang; Xu, Cheng Xian) A factored switch algorithm for nonlinear least squares problems. (Chinese. English and Chinese summaries) **97k:65097**
- Mitrouli, M. (with Karcanias, Nicos; Koukouvinos, Christos) Numerical performance of the matrix pencil algorithm computing the greatest common divisor of polynomials and comparison with other matrix-based methodologies. (English summary) **97m:15021**
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- Crombez, G. A parallel projection method based on sequential most remote set in convex feasibility problems. (English summary) **97d:65031**
- Finding projections onto the intersection of convex sets in Hilbert spaces. (English summary) **97a:65057**
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- Kuang, Jiao Xun see Wei, Yi Min, **97j:65089**
- Schott, Dieter Strongly Fejer monotone mappings. (English summary) **97m:65104**
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- Bakae, N. Yu. Coercive inequalities in parabolic difference problems. (Russian) 97g:65118
- Bertero, M. *see* Piana, M. 97m:65106
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- Chen, Hong (with Hou, Zong Yi) Parameter selection for a generalized iterative Tikhonov regularization method. (Chinese. English and Chinese summaries) 97g:65119
- Driscoll, Tobin A. (with Trefethen, Lloyd N.) Pseudospectra for the wave equation with an absorbing boundary. (English summary) 97c:65056
- El-Daou, M. K. (with Khajah, H. G.) Iterated solutions of linear operator equations with the tau method. (English summary) 97k:65135
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- Gavriluk, I. P. (with Makarov, Vladimir Leonidovich) Representation and approximation of the solution of an initial value problem for a first order differential equation in Banach spaces. (English summary) 97b:65076
- Gorbachuk, M. L. (with Yakimiv, R. Ya.) An estimate for the error of an approximate solution of an operator equation by the moment method. (Ukrainian. English and Ukrainian summaries) 97b:65096
- Hanke, Martin (with Raus, Toomas) A general heuristic for choosing the regularization parameter in ill-posed problems. (English summary) 97c:65100
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- Knyazev, Andrei Vladimirovich New estimates for Ritz vectors. (English summary) 97c:65090
- Koshelov, I. E. Erratum: "A modification of the two-grid method for the approximate solution of operator equations of the first kind" [Izv. Vyssh. Uchebn. Zaved. Mat. 1994, no. 1, 25-31; MR 95f:65119].
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- Ageev, A. L. Regularized spectral analysis and the solution of equations of the first kind. (Russian) 97c:47016
- Al'ber, Ya. I. (with Kartasatos, Athanasios G.; Litsyna, E. M.) Iterative solution of unstable variational inequalities on approximately given sets. (English summary) 97c:49006
- Azizov, M. Information complexity of an approximate solution of Fredholm equations with harmonic kernels and free terms. (Russian. English summary) 97k:65308
- Bhatia, Rajendra (with Rosenthal, Peter) How and why to solve the operator equation $AX - XB = Y$. 97k:47016
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- Campbell, Stephen L. (with Ipsen, I. C. F.; Kelley, C. T.; Meyer, Carl D.) GMRES and the minimal polynomial. (English summary) 97b:65047
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- Pereverzev, S. V. (with Solodkii, S. G.) On an approach to the discretization of the method of M. M. Lavrent'ev. (Russian. English and Ukrainian summaries) 97k:65147
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- Kallinderis, Y. A 3-D finite-volume method for the Navier-Stokes equations with adaptive hybrid grids. (English summary) **97h:76089**
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- Yu, Xi Jun A multigrid method for linear parabolic problems. (Chinese. English summary)
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 Braus, Jörg *see* Brunnert, Guido; et al., 97m:65031
 Brunnert, Guido (with Schreiber, Thomas¹; Braus, Jörg) The geometry of optimal degree reduction of Bézier curves. (English summary) 97m:65031
 Carnicer, J. M. (with García-Esnaola, M.; Peña, Juan Manuel) Convexity of rational curves and total positivity. (English summary) 97k:65043
 Cavalier, Tom M. *see* Grinde, Roger B., 97k:90065
 Clarkson, Kenneth L. (with Eppstein, David; Miller, Gary L.; Sturivant, Carl; Teng, Shang-Hua) Approximating center points with iterative radon points. (English summary) 97h:65010
 Cohen, Albert (with Dyn, Nira) Nonstationary subdivision schemes and multiresolution analysis. (English summary) 97m:41019
 Crama, Yves (with Ibaraki, Toshihide) Hitting or avoiding balls in Euclidean space. (English summary) 97m:65258
 Dæhlen, Morten *see* Bjaalie, Jan G.; et al., (97j:65004) and Arge, Erlend, (97j:65004)
 Deguchi, Tetsuo (with Tsurusaki, Kyoichi) Numerical application of quantum invariants to random knotting. (English summary) 97j:82073
 Devillers, Olivier An introduction to randomization in computational geometry. (English summary) 97d:68235
 Dö Bá Khang *see* Napajit, S.; et al., 97c:65037
 Dobos, B. *see* Szirmay-Kalos, L.; et al., 97c:68163
 Dyn, Nira *see* Cohen, Albert, 97m:41019
 Eckhardt, U. (with Latecki, L.) Invariant thinning and distance transform. (English summary) 97f:68195
 Elhai, Y. (with Yomdin, Y.) Flexible high-order discretization of geometric data for global motion planning. (English summary) 97c:68135
 Eppstein, David *see* Clarkson, Kenneth L.; et al., 97h:65010
 Everett, Hazel (with Robert, Jean-Marc; Van Kreveld, Marc) An optimal algorithm for computing $(\leq K)$ -levels, with applications. (English summary) 97f:68187
 Feng, Yu Yu (with Kozak, Jernej) On G^2 continuous interpolatory composite quadratic Bézier curves. (English summary) 97h:65016
 Floriot, Jean-Charles (with Jeannin, Pierre) A blossoming approach to accuracy of the degree elevation process. (English and French summaries) 97j:65025
 Föfmeier, Ulrich (with Kaufmann, Michael) Drawing high degree graphs with low bend numbers. (English summary) 97d:65005
 García, Miguel Angel Massively parallel approximation of irregular triangular meshes of arbitrary topology with smooth parametric surfaces. (English summary) 97h:65020
 García-Esnaola, M. *see* Carnicer, J. M.; et al., 97k:65043
 Grinde, Roger B. (with Cavalier, Tom M.) A new algorithm for the two-polygon containment problem. (English summary) 97k:90065
 Hagen, Hans Variational principles in curve and surface design. (English summary) (see 97c:65007)
 Hartwig, Andreas ★ Algebraic 3-D modeling. (English summary) 97k:68168
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 Khachiyan, Leonid G. Diagonal matrix scaling is NP-hard. (English summary) 97f:65083
 Kirkpatrick, David G. *see* McAllister, Michael; et al., 97c:68159
 Klein, Rolf (with Lingas, Andrzej) A linear-time randomized algorithm for the bounded Voronoi diagram of a simple polygon. (English summary) 97f:68190
 Kocić, Ljubila M. Fractals and their applications in computer graphics. (English summary) 97c:58099
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 Lukács, Gábor Loop detection via homotopy continuation. (English summary) 97k:65134
 Malraison, Pierre J. Constraining a quadratic rational Bézier to be an elliptical arc. (English summary) 97j:65031
 Márton, G. *see* Szirmay-Kalos, L.; et al., 97c:68163
 Matsumura, Kiyoshi (with Yamada, Atsushi; Yamaguchi, Fujio) A geometric Newton method for interference processing of rational curves and surfaces in homogeneous space. (see 97j:65010)
 McAllister, Michael (with Kirkpatrick, David G.; Snoeyink, Jack) A compact piecewise-linear Voronoi diagram for convex sites in the plane. (English summary) 97c:68159
 Mehlum, Even (with Skytt, Vibeke) Surface editing. (English summary) (see 97j:65004)
 Micchelli, Charles A. *see* Computer aided geometric design, 97a:65002
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 Napajit, S. (with Phien, Huynh Ngoc; Dö Bá Khang) Pythagorean hodograph of planar cubic Ball curves. (English summary) 97c:65037
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 Phien, Huynh Ngoc *see* Napajit, S.; et al., 97c:65037 and To, Tang Van, 97g:65047
 Putz, Barbara A note about: "On normal curvature discontinuity between tangent plane continuous patches" [Comput. Aided Geom. Design 13 (1996), no. 1, 95–99].
 Reveillès, Jean-Pierre (with Richard, Denis) Back and forth between continuous and discrete for the working computer scientist. (English summary) 97j:68134
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 Riszics, P. *see* Szirmay-Kalos, L.; et al., 97c:68163
 Rivara, María-Cecilia (with Iribarren, Gabriel) The 4-triangles longest-side partition of triangles and linear refinement algorithms. (English summary) 97a:65079
 Robert, Jean-Marc *see* Everett, Hazel; et al., 97f:68187
 (Said, Hassan B.) *see* Computer aided geometric design, 97a:65002
 Salzberg, Pablo M. On the pattern of crosses of a pen of lines on the 2-D torus. (English summary) 97h:68137
 Schreiber, Thomas¹ *see* Brunnert, Guido; et al., 97m:65031
 Sellen, Jörgen Lower bounds for geometrical and physical problems. (English summary) 97f:68207
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 Sturivant, Carl *see* Clarkson, Kenneth L.; et al., 97h:65010
 Szirmay-Kalos, L. (with Márton, G.; Dobos, B.; Horváth, T.; Riszics, P.; Kovács, E.) ★ Theory of three-dimensional computer graphics. (English summary) 97c:68163
 Teillaud, Monique ★ Vers des algorithmes dynamiques randomisés en géométrie algorithmique. (French. French summary) [Randomized dynamic algorithms in algorithmic geometry] 97a:68171

Teng, Shang-Hua *see* Clarkson, Kenneth L.; et al., 97h:65010

To, Tang Van (*with* Phien, Huynh Ngoc) Polar form approach to subsurface modeling. (English summary) 97g:65047

Tsurusaki, Kyoichi *see* Deguchi, Tetsuo, 97j:82073

Van Kreveld, Marc *see* Everett, Hazel; et al., 97f:68187

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Yamaguchi, Fujio *see* Matsumura, Kiyoshi; et al., (97i:65010)

Yomdin, Y. *see* Elihai, Y., 97e:68135

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Computer aided geometric design ★ Computer aided geometric design. 97a:65002

Conference:

Computer Aided Geometric Design ★ Computer aided geometric design. 97a:65002

Penang ★ Computer aided geometric design. 97a:65002

65Y99 None of the above, but in this section

Feldstein, Alan (*with* Turner, Peter R.) Overflow and underflow in multiplication and division. (English summary) 97f:65086

Jebelean, Tudor *see* Krandick, Werner, 97g:65295

Krandick, Werner (*with* Jebelean, Tudor) Bidirectional exact integer division. (English summary) 97g:65295

Tsuji, Kumiko Floating-point number solutions in a simple linear equation with multiplication algorithm. (English summary) 97j:65215

Turner, Peter R. *see* Feldstein, Alan, 97f:65086

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Kinoshita, Eisuke (*with* Lee, Ki-Ja) A residue arithmetic extension for reliable scientific computation. (English summary) 97j:65080

Lee, Ki-Ja *see* Kinoshita, Eisuke, 97j:65080

68-XX Computer science {For papers involving machine computations and programs in a specific mathematical area, see Section -04 in that area.}

68-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

- (Beale, Russell) *see* **Handbook: Neural computation**, 97d:68002
 (Fiesler, Emile) *see* **Handbook: Neural computation**, 97d:68002
 Wolfram, Stephen ★ **The Mathematica book**. (English summary) 97d:68001

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Handbook:

- Neural computation** ★ **Handbook of neural computation**. 97d:68002

Items with secondary classifications in 68-00

- Alekseev, E. S. *see* **Myachev, A. A.**, 97c:00009
 (Delijaša, B.) *see* **Dictionary: Computer science and mathematics**, 97f:00005
 Myachev, A. A. (with Alekseev, E. S.) ★ **Интерфейсы и сети ЭВМ: англо-русский толковый словарь**. (Russian. Russian summary) [Computer interfaces and networks: an English-Russian explanatory dictionary] 97c:00009
 (Peeva, K.) *see* **Dictionary: Computer science and mathematics**, 97f:00005

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Dictionary:

- Computer interfaces and networks** *see* **Myachev, A. A.**, 97c:00009
Computer science and mathematics ★ **Elsevier's dictionary of computer science and mathematics**. 97f:00005

68-01 Instructional exposition (textbooks, tutorial papers, etc.)

- Arnold, André (with Guessarian, I.) ★ **Mathematics for computer science**. 97c:68001
 Burke, Edmund (with Foxley, Eric) ★ **Logic and its applications**. 97f:68001
 Foxley, Eric *see* **Burke, Edmund**, 97f:68001
 Graham, Ronald L. (with Knuth, Donald E.; Patashnik, Oren) ★ **Concrete mathematics**. (English summary) 97d:68003
 Guessarian, I. *see* **Arnold, André**, 97c:68001
 Kas'yanov, V. N. ★ **Лекции по теории формальных языков, автоматов и сложности вычислений**. (Russian. Russian summary) [Lectures in the theory of formal languages, automata and complexity of computations]
 Knuth, Donald E. *see* **Graham, Ronald L.**; et al., 97d:68003
 Nabehin, A. A. ★ **Логика и пролог в дискретной математике**. (Russian. Russian summary) [Logic and Prolog in discrete mathematics] 97g:68001
 Patashnik, Oren *see* **Graham, Ronald L.**; et al., 97d:68003
 Tornambé, Antonio ★ **Discrete-event system theory**. 97k:68001

Items with secondary classifications in 68-01

- de Bakker, J. W. (with de Vink, E. P.) ★ **Control flow semantics**. (English summary) 97h:68074
 Brassard, Gilles (with Bratley, Paul) ★ **Fundamentals of algorithmics**. 97b:68081
 Bratley, Paul *see* **Brassard, Gilles**, 97b:68081
 Davenport, J. H. **Computer science and mathematics**. (English summary) (*see* 97j:68001)
 Dobos, B. *see* **Szirmay-Kalos, L.**; et al., 97c:68163
 Gavrilov, G. P. (with Sapozhenko, A. A.) ★ **Problems and exercises in discrete mathematics**. 97h:00002
 Goguen, Joseph A. (with Malcolm, Grant) ★ **Algebraic semantics of imperative programs**. (English summary) 97m:68133
 Horváth, T. *see* **Szirmay-Kalos, L.**; et al., 97c:68163
 Kovács, E. *see* **Szirmay-Kalos, L.**; et al., 97c:68163
 Lynch, Nancy A. ★ **Distributed algorithms**. (English summary) 97b:68079
 Malcolm, Grant *see* **Goguen, Joseph A.**, 97m:68133
 Márton, G. *see* **Szirmay-Kalos, L.**; et al., 97c:68163
 Risztics, P. *see* **Szirmay-Kalos, L.**; et al., 97c:68163
 Sapozhenko, A. A. *see* **Gavrilov, G. P.**, 97h:00002
 Smyth, M. B. **Topology**. 97f:68131
 Szirmay-Kalos, L. (with Márton, G.; Dobos, B.; Horváth, T.; Risztics, P.; Kovács, E.) ★ **Theory of three-dimensional computer graphics**. (English summary) 97c:68163
 de Vink, E. P. *see* **de Bakker, J. W.**, 97h:68074
 Wegener, Ingo ★ **Kompedium Theoretische Informatik—eine Ideensammlung**. (German) [Compendium on theoretical computer science—a collection of ideas] 97j:68026
 Winkler, Franz ★ **Polynomial algorithms in computer algebra**. 97j:68063

68-02 Research exposition (monographs, survey articles)

- (Milner, Robin) *see* **Computing tomorrow**, 97j:68001
 (Wand, Ian) *see* **Computing tomorrow**, 97j:68001

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- Computing tomorrow** ★ **Computing tomorrow**. 97j:68001

Items with secondary classifications in 68-02

- de Bakker, J. W. (with de Vink, E. P.) ★ **Control flow semantics**. (English summary) 97h:68074
 Bergadano, Francesco (with Gunetti, Daniele) ★ **Inductive logic programming**. (English summary) 97d:68025
 Cegielski, Patrick **Definability, decidability, complexity**. (English summary) 97c:03002

- Crandall, Richard E. ★ **Topics in advanced scientific computation**. (English summary) 97g:65005
 Dams, Dennis René ★ **Abstract interpretation and partition refinement for model checking**. (Dutch summary) 97g:68023
 Devienne, P. (with Lebeugue, P.; Parrain, A.; Routier, J. C.; Würtz, Jörg) **Smallest Horn clause programs**. (English summary) 97b:68034
 Dobos, B. *see* **Szirmay-Kalos, L.**; et al., 97c:68163
 Fitting, Melvin ★ **First-order logic and automated theorem proving**. (English summary) 97b:68197
 Gardiner, Paul *see* **Morgan, C. Carroll**; et al., 97m:68141
 Garzon, Max ★ **Models of massive parallelism**. (English summary) 97a:68048
 German, Oleg V. (with Ofitserov, D. V.) ★ **Problem solving: methods, programming and future concepts**. 97c:68119
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 Graf, Peter ★ **Term indexing**. (English summary) 97f:68165
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 (ter Haar Romeny, Bart M.) *see* **Geometry-driven diffusion in computer vision**, 97c:68147
 Hofri, Micha ★ **Analysis of algorithms**. 97c:68050
 Horváth, T. *see* **Szirmay-Kalos, L.**; et al., 97c:68163
 Knuth, Donald E. ★ **Stable marriage and its relation to other combinatorial problems**. (English summary) 97b:68048
 Kovács, E. *see* **Szirmay-Kalos, L.**; et al., 97c:68163
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 Li, Ming¹ (with Vitányi, Paul M. B.) ★ **An introduction to Kolmogorov complexity and its applications**. 97k:68086
 Lynch, Nancy A. (with Vaandrager, Frits) **Forward and backward simulations. I. Untimed systems**. (English summary) 97f:68123
 — ★ **Distributed algorithms**. (English summary) 97b:68079
 Markowsky, George **Introduction to algorithmic information theory**. 97c:68073
 Márton, G. *see* **Szirmay-Kalos, L.**; et al., 97c:68163
 Morgan, C. Carroll (with Gardiner, Paul; Robinson, Ken; Vickers, Trevor) ★ **On the refinement calculus**. 97m:68141
 Ofitserov, D. V. *see* **German, Oleg V.**, 97c:68119
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 Ramalingam, G. ★ **Bounded incremental computation**. (English summary) 97m:68102
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 Routier, J. C. *see* **Devienne, P.**; et al., 97b:68034
 Svozil, Karl **Quantum algorithmic information theory**. (English summary) 97c:68027
 Szirmay-Kalos, L. (with Márton, G.; Dobos, B.; Horváth, T.; Risztics, P.; Kovács, E.) ★ **Theory of three-dimensional computer graphics**. (English summary) 97c:68163
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 Veltkamp, Remco C. ★ **Closed object boundaries from scattered points**. 97b:68138
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- Geometry-driven diffusion in computer vision** ★ **Geometry-driven diffusion in computer vision**. 97c:68147

68-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 68-03

- Anellis, Irving H. John Vincent Atanasoff—his place in the history of computer logic and technology. 97k:01019
 (Atanasoff, John Vincent) *see* **Anellis, Irving H.**, 97k:01019
 Davenport, J. H. **Computer science and mathematics**. (English summary) (*see* 97j:68001)
 Frențiu, M. (with Munteanu, Emil) **Past and future in computer science at the University of Cluj**. (*see* 97f:68008)
 Katz, Kaila **Historical content in computer science texts: a concern**. (English summary) 97g:01035
 Lévy, Pierre **L'invention de l'ordinateur**. [The invention of the computer] (*see* 97a:01001)
 (Milner, Robin) *see* **Computing tomorrow**, 97j:68001
 Munteanu, Emil *see* **Frențiu, M.**, (97f:68008)
 Prather, Ronald E. **Regular expressions for program computations**.
 Puchta, Susann **On the role of mathematics and mathematical knowledge in the invention of Vannevar Bush's early analog computers**. (English summary) 97g:01024
 Roseman, Dennis **Wiener's thought on the computer as an aid in visualizing higher-dimensional forms and its modern ramifications**. 97m:01057
 Sarma, V. V. S. **A survey of Indian logic from the point of view of computer science**. (English summary) 97f:01008
 (Wand, Ian) *see* **Computing tomorrow**, 97j:68001

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- Computing tomorrow** ★ **Computing tomorrow**. 97j:68001
 Obituary:
 Atanasoff, John Vincent *see* **Anellis, Irving H.**, 97k:01019

68-06 Proceedings, conferences, collections, etc.

- (Abiteboul, S.) *see* **ICALP '94**, 97f:68005
 (Abramsky, Samson) *see* **Handbook: Logic in computer science**, 97f:68004
 (Aigrain, P.) *see* **Selected papers from the "GASCOM '94" and the "Polyominoes and Tilings" Workshops**, 97b:68010
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- (Alves-Foss, James) *see* Higher order logic theorem proving and its applications, 97k:68007
 (Anthony, Martin H. G.) *see* Computational learning theory: EuroCOLT '93, 97b:68005
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 (Bajard, J.-C.) *see* Real numbers and computers, 97c:68013
 (Balcazar, José L.) *see* Probabilistic complexity classes and nonuniform computational models, 97f:68007
 (Baum, Eric B.) *see* DNA based computers, 97c:68007
 (Beeri, Catriel) *see* ACM Symposium: Principles of Database Systems, 97c:68003
 (Boissonat, Jean-Daniel) *see* ACM Symposium: Computational Geometry, 97c:68002
 (Book, Ronald V.) *see* Advances in algorithms, languages, and complexity, 97k:68002
 (Boros, Endre) *see* Artificial intelligence and mathematics, 97f:68001
 (Bouchitté, Vincent) *see* Orders, algorithms and applications, 97k:68010
 (Brandenburg, Franz J.) *see* Graph drawing, 97c:68010
 (Brauer, Wilfried) *see* KI-95: Advances in artificial intelligence, 97a:68003
 (Cai, Jin-Yi) *see* Computing and combinatorics, 97m:68001
 (Calmet, Jacques) *see* Integrating symbolic mathematical computation and artificial intelligence, 97m:68003
 (Campbell, John A.) *see* Integrating symbolic mathematical computation and artificial intelligence, 97m:68003
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 (Cavedon, Lawrence) *see* Intelligent agent systems, 97m:68004
 (Clark, Robert G.) *see* Unified computation laboratory, 97a:68008
 (Cohen, Gérard Denis) *see* Applied algebra, algebraic algorithms and error-correcting codes, 97k:68003
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 (Cun, J.) *see* Graph grammars and their application to computer science, 97g:68004
 (Dassow, Jürgen) *see* Conference: Developments in Language Theory, 97f:68003
 (Della Riccia, G.) *see* Mathematical and statistical methods in artificial intelligence, 97c:68011
 (De Raedt, Luc) *see* Advances in inductive logic programming, 97b:68001
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 (Dubois, Didier) *see* Mathematical models for handling partial knowledge in artificial intelligence, 97c:68012
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 (Engels, G.) *see* Graph transformations, 97c:68002 and Graph grammars and their application to computer science, 97g:68004
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 (Gasarch, William L.) *see* Workshop: Computational Learning Theory, 97c:68015
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 (Gori, Marco) *see* Topics in artificial intelligence, 97d:68006
 (Gouyou-Beauchamps, D.) *see* Selected papers from the "GASCOM '94" and the "Polyminoes and Tilings" Workshops, 97b:68010
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 (Hagiya, Masami) *see* Theoretical aspects of computer software, 97b:68011
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 (Hong, Hoon) *see* Parallel symbolic computation, 97c:68003 and Symposium: Parallel Symbolic Computation—PASCO '94, 97f:68011
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 (Johnson, David Stifter) *see* Cliques, coloring, and satisfiability, 97g:68003
 (Jossifov, Vesselin) *see* Parcella '96, 97f:68002
 (Jouannaud, Jean-Pierre) *see* Constraints in computational logics, 97f:68003
 (Kanchanasut, Kanchana) *see* Algorithms, concurrency and knowledge, 97b:68003
 (Kanellakis, Paris Christos) *see* Special Issue: Dedicated to Paris Christos Kanellakis, 97c:68014
 (Karlsson, Rolf) *see* Workshop: Algorithm Theory, 97f:68012
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 (Krusse, Rudolf) *see* Mathematical and statistical methods in artificial intelligence, 97c:68011
 (Kueker, David) *see* Learning and geometry: computational approaches, 97a:68004
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- Higher Order Logic Theorem Proving and its Applications** ★ Higher order logic theorem proving and its applications. 97k:68007
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- Inductive Logic Programming** ★ Advances in inductive logic programming. 97b:68001
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- Logic Program Synthesis and Transformation** ★ Logic program synthesis and transformation. 97m:68005
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- (Carmo, José) *see* Deontic logic, agency and normative systems, 97b:03036
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68U30 Other applications

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68U99 None of the above, but in this section

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70-XX Mechanics of particles and systems {For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82-XX.}

70-01 Instructional exposition (textbooks, tutorial papers, etc.)

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70-03 Historical (must also be assigned at least one classification number from Section 01)

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 Panza, Marco De la nature épargnante aux forces généreuses: le principe de moindre action entre mathématiques et métaphysique. Maupertuis et Euler, 1740-1751. (English and French summaries) [From parsimonious nature to generous forces: the principle of least action between mathematics and metaphysics. Maupertuis and Euler, 1740-1751] 97m:01033
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 Vilain, Christiane ★ La mécanique de Christian Huygens. (French) [The mechanics of Christian Huygens] 97f:01014

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70-04 Explicit machine computation and programs (not the theory of computation or programming)

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70-06 Proceedings, conferences, collections, etc.

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- Bernstein, Dennis S.** *see* Bhat, Sanjay P., 97i:34009
- Bhat, Sanjay P.** (with Bernstein, Dennis S.) Second-order systems with singular mass matrix and an extension of Guyan reduction. (English summary) 97i:34009
- Dai, Hua** (with Lancaster, Peter) Linear matrix equations from an inverse problem of vibration theory. (English summary) 97f:15029
- Gladwell, G. M. L.** Inverse vibration problems for finite-element models. (English summary) 97m:73035
- Lancaster, Peter** *see* Dai, Hua, 97f:15029
- Ni, Wei Ming** *see* Tang, Jiong; et al., 97c:70005
- Tang, Jiong** (with Ni, Wei Ming; Wang, Wen Liang) Eigensolutions sensitivity for quadratic eigenproblems. (English summary) 97c:70005
- Wang, Wen Liang** *see* Tang, Jiong; et al., 97c:70005

70J10 Modal analysis

- Wang, Rong Chang** *see* Wang, Wen Liang, 97f:70035
- Wang, Wen Liang** (with Wang, Rong Chang) Modal methods for eigensensitivity of discrete vibratory systems. (Chinese. English and Chinese summaries) 97f:70035

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- Ariaratnam, S. T.** *see* Xie, Wei-Chau, (97b:00021)
- Mote, C. D., Jr.** *see* Parker, Robert G., 97a:73058
- Parker, Robert G.** (with Mote, C. D., Jr.) Exact boundary condition perturbation solutions in eigenvalue problems. (English summary) 97a:73058
- Ren, G. X.** *see* Zheng, Z. C.; et al., 97h:70002
- Wang, Weiji** *see* Zheng, Z. C.; et al., 97h:70002
- Wang, Wen Liang** *see* Zhang, Hui Sheng, 97c:70010
- Xie, Wei-Chau** (with Ariaratnam, S. T.) Vibration mode localization in large randomly disordered continuous beams. (see 97b:00021)

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- Zheng, Z. C. (with Ren, G. X.; Wang, Weiji) A reduction method for large scale unsymmetric eigenvalue problems in structural dynamics. (English summary) 97h:70002

70J25 Stability

- Mote, C. D., Jr. see Renshaw, A. A., 97a:70032
- Renshaw, A. A. (with Mote, C. D., Jr.) Local stability of gyroscopic systems near vanishing eigenvalues. (English summary) 97a:70032

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- Potapov, V. D. About the influence of damping forces randomly changing in time on the stability of nonconservative systems. (English summary) 97e:70012

70J30 Free motions

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- Bavinck, Herman On the zeros of certain linear combinations of Chebyshev polynomials. (English summary) 97a:33012

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70J40 Parametric resonances

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- Bates, Jason W. see Lewis, H. Ralph; et al., 97d:70019
- Finn, John M. see Lewis, H. Ralph; et al., 97d:70019
- (Hänggi, Peter) see Zerbe, Christine, 97f:82032
- Lewis, H. Ralph (with Bates, Jason W.; Finn, John M.) Time-dependent perturbation theory for the construction of invariants of Hamiltonian systems. (English summary) 97d:70019
- Perret-Liaudet, J. An original method for computing the response of a parametrically excited forced system. (English summary) 97e:70004
- Zerbe, Christine ★ Dissipative Dynamik von klassischen und quantenmechanischen parametrischen Brownschen Oszillatoren. (German. English and German summaries) [Dissipative dynamics of classical and quantum-mechanical parametric Brownian oscillators] 97f:82032

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- Chechin, G. M. (with Sakhenko, V. P.) Bushes of vibrational modes in nonlinear dynamics of systems with discrete symmetry. (English summary) (see 97j:58002)
- Hjelmstad, K. D. On the uniqueness of modal parameter estimation. (English summary) 97a:70033
- Provost, J.-P. see Usatenko, O. V.; et al., 97d:70024
- Sakhenko, V. P. see Chechin, G. M., (97j:58002)
- Usatenko, O. V. (with Provost, J.-P.; Vallée, G.) A comparative study of the Hannay's angles associated with a damped harmonic oscillator and a generalized harmonic oscillator. (English summary) 97d:70024
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- Ren, G. X. see Zheng, Z. C.; et al., 97h:70002
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70Kxx Nonlinear motions [see also 34Cxx, 58Fxx, 73D35, 73K12]

Items with secondary classifications in 70Kxx

- (Bolotin, S. V.) see Kozlov, Valeril V., 97j:70010b
- (Fedoron, Yu. N.) see Kozlov, Valeril V., 97j:70010b
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- ★ Symmetries, topology and resonances in Hamiltonian mechanics. 97j:70010b
- Landa, P. S. ★ Nonlinear oscillations and waves in dynamical systems. (English summary) 97h:00008
- (Treshchêv, D. V.) see Kozlov, Valeril V., 97j:70010b

70K05 Phase plane analysis

- Luongo, Angelo Perturbation methods for nonlinear autonomous discrete-time dynamical systems. (English summary) 97d:70025
- Markeev, A. P. On the oscillations of a material point suspended from an ideal thread. (Russian. Russian summary) 97f:70037

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- Bridge, J. see Quinn, D. Dane; et al., 97b:34050
- Capecchi, D. (with Masiani, Renato) Reduced phase space analysis for hysteretic oscillators of Masing type. (English summary) 97f:70033
- Lowenstein, J. H. Equal abundance of positive- and negative-residue fixed points for resonantly kicked harmonic oscillators. (English summary) 97f:70027
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- Quinn, D. Dane (with Rand, Richard H.; Bridge, J.) The dynamics of resonant capture. (English summary) 97b:34050
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70K10 Limit cycles

- (Chan, H. S. Y.) see Dai, De Cheng
- (Chung, K. W.) see Dai, De Cheng
- Dai, De Cheng Comments on: "A perturbation-iterative method for determining limit cycles of strongly non-linear oscillators" [J. Sound Vibration 183 (1995), no. 4, 707-717; MR 96a:70025] by H. S. Y. Chan, K. W. Chung, and Z. Xu.
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- Chen, Shu Hui An elliptic function Lindstedt-Poincaré method for limit cycle analysis. (Chinese. English and Chinese summaries) 97m:34055
- Grzędziński, J. Subsonic flutter calculation of an aircraft with nonlinear control system based on center-manifold reduction. (English summary) 97k:73060
- Han, Ray P. S. see Luo, Albert C. J., 97m:70042
- Hassan, Ameer On the local stability analysis of the approximate harmonic balance solutions. (English summary) 97m:70040
- Kim, Y.-B. Quasi-periodic response and stability analysis for non-linear systems: a general approach. (English summary) 97m:70041
- Li, Li¹ Energy method for computing periodic solutions of strongly nonlinear systems. I. Autonomous systems. (English summary) 97a:34113
- Luo, Albert C. J. (with Han, Ray P. S.) The dynamics of a bouncing ball with a sinusoidally vibrating table revisited. (English summary) 97m:70042
- Sass, B. (with Toroczka, Z.) Continuous extension of the geometric control method. (English summary) 97d:58112
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70K15 Lyapunov theorems

- Li, Junfeng On the stability of dissipative mechanical systems with circulatory forces. (English summary) 97m:70035

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- Kamphorst, Sylvie Oliffson see Koiller, Jair; et al., 97c:58139
- Koiller, Jair (with Markarian, Roberto; Kamphorst, Sylvie Oliffson; Pinto de Carvalho, Sônia) Static and time-dependent perturbations of the classical elliptical billiard. (English summary) 97c:58139
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- Martynuk, A. A. Aggregation forms of nonlinear systems. Regions of asymptotic stability. (A survey). (Russian. English, Russian and Ukrainian summaries) 97k:34077
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70K20 Stability

- Bardin, B. S. (with Markeev, A. P.) On the stability of equilibrium of a pendulum with vertical oscillations of its suspension point. (Russian. Russian summary) 97f:70038a
- (with Markeev, A. P.) Erratum: "On the stability of equilibrium of a pendulum with vertical oscillations of its suspension point". 97f:70038b
- Beletskii, V. V. Some stability problems in applied mechanics. (English summary) 97f:70039
- Borckmans, P. see Lima, D.; et al., 97d:70026
- Burd, V. Sh. On a problem in the theory of nonlinear oscillations. (Russian) 97g:70021
- Dewel, G. see Lima, D.; et al., 97d:70026
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- Lamarque, C.-H. (with Malasoma, J.-M.) Analytical study of the bifurcations from an equilibrium point. 97f:70040
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- Markeev, A. P. see Bardin, B. S., 97f:70038a and 97f:70038b
- Mikhlin, Yu. V. (with Zhupiev, A. L.) An application of the Ince algebraization to the stability of the non-linear normal vibration modes. (English summary) 97k:70010
- Popescu, Mihail-Emilian Necessary and sufficient conditions for the stability of nonlinear conservative systems. (Romanian. Romanian summary) 97g:70022
- Rudowski, Jerzy see Szemplińska-Stupnicka, Wanda, 97g:70023
- Rumyantsev, V. V. On stability of steady motions of rigid body with liquid-filled cavity. (English summary) 97f:70041
- Schleife, K. On the stabilization of a parametrically driven inverted double pendulum. (English summary) 97m:70036
- Shmyrov, A. S. Stable trajectories of a particle in a bounded potential field. (Russian. English and Russian summaries) 97m:70037
- Sosnitskii, S. P. On the gyroscopic stabilization of conservative systems. (Ukrainian. English and Ukrainian summaries) 97m:70038
- Szemplińska-Stupnicka, Wanda (with Rudowski, Jerzy) On minimum safe impulsive velocity in the driven escape oscillator. (English summary) 97g:70023

- Teofilatto, Paolo** Modified Routh algorithms applied to aircraft stability. (English and Italian summaries) **97f:70042**
- Walker, J. A.** Stability of generalized equilibria in constrained pseudodissipative systems. (English summary) **97k:70011**
- Yakovleva, T. A.** On the nonrigidity of an equilibrium position of a system whose potential energy does not have a minimum. (Russian) **97f:70043**
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- Abrarova, E. V.** On the stability of the steady motions of a rigid body in a central field. (Russian. Russian summary) **97b:70005**
- (with **Karapetyan, A. V.**) On the bifurcation and stability of steady motions and of relative equilibria of a rigid body in a central gravitational field. (Russian. Russian summary) **97m:70006**
- Aleksandrov, A. Yu.** On the stability of the equilibrium of time-dependent systems. (Russian. Russian summary) **97g:34064**
- Blanc, J.-C.** *see* **Choquard, Philippe**; et al., **97f:70048**
- Bolotin, S. V.** (with **Negrini, Piero**) Asymptotic solutions of Lagrangian systems with gyroscopic forces. (English summary) **97e:70025**
- Bondarenko, L. A.** (with **Kirpichnikova, E. S.**; **Kirpichnikov, S. N.**) On the stability of linear periodic Hamiltonian systems in the presence of non-Hamiltonian perturbations. (Russian. Russian summary) **97c:70006**
- Bonjour, F.** *see* **Choquard, Philippe**; et al., **97f:70048**
- Chen, Heng-Hui** *see* **Ge, Zheng Ming**; et al., **97g:70008**
- Chen, Hsien-Keng** *see* **Ge, Zheng Ming**; et al., **97g:70008**
- Choquard, Philippe** (with **Bonjour, F.**; **Blanc, J.-C.**) Sur la dynamique du fléau. (English summary) [The dynamics of the flail] **97f:70048**
- Deprit, André** (with **López Moratalla, Teodoro**) Orbital stability of stationary satellites. (Spanish. English and Spanish summaries) **97k:70016**
- Donescu, Pompiliu** (with **Virgin, Lawrence N.**; **Wu, Julian J.**) Periodic solutions of an unsymmetric oscillator including a comprehensive study of their stability characteristics. (English summary) **97h:70024**
- Flashner, Henryk** *see* **Guttalu, Ramesh S.**, **(97b:70001)**
- Ge, Zheng Ming** (with **Chen, Hsien-Keng**; **Chen, Heng-Hui**) The regular and chaotic motions of a symmetric heavy gyroscope with harmonic excitation. (English summary) **97g:70008**
- Guttalu, Ramesh S.** (with **Flashner, Henryk**) Analysis of bifurcation and stability of periodic systems using truncated point mappings. (English summary) (*see* **97b:70001**)
- Hassan, Ameer** On the local stability analysis of the approximate harmonic balance solutions. (English summary) **97m:70040**
- Hatvani, László** On the asymptotic stability of the equilibrium of the damped oscillator. (*see* **97i:34003**)
- Karapetyan, A. V.** *see* **Abrarova, E. V.**, **97m:70006**
- Kim, Y.-B.** Quasi-periodic response and stability analysis for non-linear systems: a general approach. (English summary) **97m:70041**
- Kirpichnikov, S. N.** *see* **Bondarenko, L. A.**; et al., **97c:70006**
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- Kochetkova, A. Yu.** *see* **Luk'yanov, L. G.**, **97k:70002**
- Koonadis, A. N.** *see* **Nonlinear stability of structures**, **97g:73003**
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- Leonard, Naomi Ehrlich** Stability of a bottom-heavy underwater vehicle. (English summary) **97m:70009**
- Li, Li¹** Energy method for computing periodic solutions of strongly nonlinear systems. I. Autonomous systems. (English summary) **97a:34113**
- Lobas, Leonid Grigor'evich** *see* **Verbitskii, V. G.**, **97k:34078**
- López Moratalla, Teodoro** *see* **Deprit, André**, **97k:70016**
- Luk'yanov, L. G.** (with **Kochetkova, A. Yu.**) On the stability of Lagrangian libration points in the photogravitational elliptic restricted three-body problem. (Russian. Russian summary) **97k:70002**
- Markeev, A. P.** On the oscillations of a material point suspended from an ideal thread. (Russian. Russian summary) **97f:70037**
- Mikhlin, Yu. V.** Normal vibrations of a general class of conservative oscillators. (English summary) **97m:34068**
- Náprstek, Jiří** Stochastic exponential and asymptotic stability of simple non-linear systems. (English summary) **97b:70031**
- Negrini, Piero** *see* **Bolotin, S. V.**, **97e:70025**
- Palamodov, V. P.** Stability of motion and algebraic geometry. **97b:34055**
- Patrick, George W.** Dynamics near stable relative equilibria at non-generic momenta: a numerical investigation. **97m:70010**
- Popescu, Mihai-Emilian** Instability of Hamiltonian systems. (Romanian. Romanian summary) **97b:70023**
- The study of the critical case of stability in the restricted problem of three bodies. (English summary) **97m:70017**
- Potapov, V. D.** About the influence of damping forces randomly changing in time on the stability of nonconservative systems. (English summary) **97e:70012**
- Sosnitskii, S. P.** Instability of Lagrangian configurations of mutually-attracting mass points. (Russian. Russian summary) **97m:70022**
- On the instability of Lagrange's solutions of the three-body problem. (Ukrainian. English and Ukrainian summaries) **97m:70018**
- Sulikashvili, R. S.** Equilibrium states and steady motions of regular polygons in a Newtonian force field. (Russian) **97b:70010**
- Thái, V. N.** Investigation of the plane unrestricted three-body problem. (Russian. Russian summary) **97m:70019**
- Verbitskii, V. G.** (with **Lobas, Leonid Grigor'evich**) Real bifurcations of two-link systems with rolling. (Russian. Russian summary) **97k:34078**
- Veskovice, Miroslav** On the instability of equilibrium of non-holonomic systems with a non-analytic potential. (English summary) **97f:70024**
- Virgin, Lawrence N.** *see* **Donescu, Pompiliu**; et al., **97h:70024**
- Vorotnikov, V. I.** On the theory of stability with respect to some of the variables. (Russian) **97d:34063**

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70K25 Free motions

- Chen, Yushu S.** (with **Zhang, Qi Chang**) A new method for calculating asymptotic solutions of nonlinear vibration systems—a simple way of calculating the coefficients of the normal form of a vector field. (Chinese. English and Chinese summaries)
- Pilipchuk, V. N.** Analytical study of vibrating systems with strong non-linearities by employing saw-tooth time transformations. (English summary) **97d:70027**
- Qian, Min** (with **Zhu, Shu**; **Qin, Wen-Xin**) Dynamics in a chain of overdamped pendula driven by constant torques. (English summary) **97f:70032**
- Qin, Wen-Xin** *see* **Qian, Min**; et al., **97f:70032**
- Zhang, Qi Chang** *see* **Chen, Yushu S.**
- Zhu, Shu** *see* **Qian, Min**; et al., **97f:70032**

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- Caldiroli, Paolo** (with **Montecchiari, Piero**; **Nolasco, Margherita**) Asymptotic behavior for a class of multibump solutions to Duffing-like systems. (English summary) **97e:58073**
- Hu, Jihuan** Asymptotics beyond all orders for a certain type of nonlinear oscillators. (English summary) **97d:34029**
- Lopatn, A. K.** Symmetry in nonlinear mechanics: averaging and normalization procedures, new problems and algorithms. **97d:34047**
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70K28 Parametric resonances

- Balibrea Gallego, Francisco** *see* **Chacón, Ricardo**; et al., **97f:70044**
- Chacón, Ricardo** (with **Balibrea Gallego, Francisco**; **López, Miguel Ángel**) Inhibition of chaotic escape from a potential well using small parametric modulations. (English summary) **97f:70044**
- Huo, Quan Zhong** *see* **Zhang, Wei⁵**
- López, Miguel Ángel** *see* **Chacón, Ricardo**; et al., **97f:70044**
- Ruijgrok, M.** (with **Verhulst, Ferdinand**) Parametric and autoparametric resonance. **97e:70029**
- Verhulst, Ferdinand** *see* **Ruijgrok, M.**, **97e:70029**
- Zhang, Wei⁵** (with **Huo, Quan Zhong**) Bifurcations of systems with nonlinear oscillations under combined parametric and forced excitations. (Chinese. English and Chinese summaries)

Items with secondary classifications in 70K28

- Bardin, B. S.** (with **Markeev, A. P.**) On the stability of equilibrium of a pendulum with vertical oscillations of its suspension point. (Russian. Russian summary) **97f:70038a**
- (with **Markeev, A. P.**) Erratum: "On the stability of equilibrium of a pendulum with vertical oscillations of its suspension point". **97f:70038b**
- Chen, Yushu S.** (with **Xu, Jian²**) Local bifurcation theory of nonlinear systems with parametric excitation. (English summary) **97h:34037**
- Markeev, A. P.** *see* **Bardin, B. S.**, **97f:70038a** and **97f:70038b**
- Pilipchuk, V. N.** Analytical study of vibrating systems with strong non-linearities by employing saw-tooth time transformations. (English summary) **97d:70027**
- Xu, Jian²** *see* **Chen, Yushu S.**, **97h:34037**

70K30 Nonlinear resonances

- Chatterjee, Shyamal²** (with **Mallik, Asok Kumar**; **Ghosh, Amitabha**) Periodic response of piecewise non-linear oscillators under harmonic excitation. (English summary) **97f:70045**
- Ghosh, Amitabha** *see* **Chatterjee, Shyamal²**; et al., **97f:70045**
- Höbler, Alfred** *see* **Wargitsch, Christoph**, **97a:70035**
- King, M. E.** (with **Vakakis, Alexander F.**) An energy-based approach to computing resonant nonlinear normal modes. (English summary) **97f:70046**
- Mallik, Asok Kumar** *see* **Chatterjee, Shyamal²**; et al., **97f:70045**
- Vakakis, Alexander F.** *see* **King, M. E.**, **97f:70046**
- Wargitsch, Christoph** (with **Höbler, Alfred**) Resonances of nonlinear oscillators. (English summary) **97a:70035**

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- Chen, Shu Hui** (with **Cheung, Y. K.**) An elliptic perturbation method for certain strongly non-linear oscillators. (English summary) **97b:34058**
- Cheung, Y. K.** *see* **Chen, Shu Hui**, **97b:34058**
- Haberman, Richard** (with **Ho, Eric K.**) Boundary of the basin of attraction for weakly damped primary resonance. (English summary) **97e:70023**
- Ho, Eric K.** *see* **Haberman, Richard**, **97e:70023**
- Huo, Quan Zhong** *see* **Zhang, Wei⁵**
- Markeev, A. P.** On the oscillations of a material point suspended from an ideal thread. (Russian. Russian summary) **97f:70037**
- Zhang, Wei⁵** (with **Huo, Quan Zhong**) Bifurcations of systems with nonlinear oscillations under combined parametric and forced excitations. (Chinese. English and Chinese summaries)

70K40 Forced motions

- Avalos, D. R.** *see* **Larrondo, H. A.**; et al., **97g:70024**
- Azeez, M. A. F.** *see* **Pilipchuk, V. N.**; et al., **97j:70014**
- Bajaj, Anil K.** *see* **Raman, A.**; et al., **97k:70013**
- Berdichevskii, V. L.** (with **Gitterman, M.**) Stochastic resonance in a bistable piecewise potential: analytical solution. (English summary) **97f:70047**

- Bi, Qin Sheng (with Chen, Yushu S.; Wu, Zhi Qiang) Local bifurcation analysis of strongly nonlinear Duffing system. (Chinese. English and Chinese summaries) 97k:70012
- Blanc, J.-C. see Choquard, Philippe; et al., 97b:70048
- Bonjour, F. see Choquard, Philippe; et al., 97b:70048
- Capecchi, D. (with Masiani, Renato) Reduced phase space analysis for hysteretic oscillators of Masing type. (English summary) 97b:70033
- Chacón, Ricardo Chaos and geometrical resonance in the damped pendulum subjected to periodic pulses. (English summary) 97m:70039
- Chen, Shu Hui (with Cheung, Y. K.) A modified Lindstedt-Poincaré method for a strongly non-linear two degree-of-freedom system. (English summary) 97b:70026
- Chen, Yushu S. see Bi, Qin Sheng; et al., 97k:70012
- Cheung, Y. K. see Chen, Shu Hui, 97b:70026
- Choquard, Philippe (with Bonjour, F.; Blanc, J.-C.) Sur la dynamique du fléau. (English summary) [The dynamics of the flail] 97f:70048
- Davies, Patricia see Raman, A.; et al., 97k:70013
- Donescu, Pompiliu (with Virgin, Lawrence N.; Wu, Julian J.) Periodic solutions of an unsymmetric oscillator including a comprehensive study of their stability characteristics. (English summary) 97b:70024
- Fernández Sanjaún, Miguel Ángel Homoclinic bifurcation sets of driven nonlinear oscillators. (English summary) 97d:70028
- Symmetry-restoring crises, period-adding and chaotic transitions in the cubic van der Pol oscillator. (English summary) 97b:70027
- Friedman, Menahem see Rabinovitch, A.; et al., 97f:70034
- Gitterman, M. see Berdichevskii, V. L., 97f:70047
- Goshen, Shmuel Y. see Rabinovitch, A.; et al., 97b:70034
- Green, William A. see Harrison, Martin C.; et al., (97g:00022)
- Han, Ray P. S. see Luo, Albert C. J., 97m:70042
- Harrison, Martin C. (with Kane, S. J.; Green, William A.) Forced impact vibration of a delaminated beam. (English summary) (see 97g:00022)
- Hassan, Ameer On the local stability analysis of the approximate harmonic balance solutions. (English summary) 97m:70040
- Hu, Hai Yan Nonsmooth analysis of the dynamics of a piecewise linear system. (Chinese. English and Chinese summaries) 97b:70025
- Kane, S. J. see Harrison, Martin C.; et al., (97g:00022)
- Kim, Y.-B. Quasi-periodic response and stability analysis for non-linear systems: a general approach. (English summary) 97m:70041
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- Laura, P. A. A. see Larrondo, H. A.; et al., 97g:70024
- Lee, Gue-Myung see Tomlinson, G. R.; et al., 97d:70030
- Luo, Albert C. J. (with Han, Ray P. S.) The dynamics of a bouncing ball with a sinusoidally vibrating table revisited. (English summary) 97m:70042
- Manson, G. see Tomlinson, G. R.; et al., 97d:70030
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73-XX Mechanics of solids

73-01 Instructional exposition (textbooks, tutorial papers, etc.)

- Movchan, A. B. (with Movchan, N. V.) ★ Mathematical modelling of solids with nonregular boundaries. 97c:73001
 Movchan, N. V. *see* Movchan, A. B., 97c:73001
- Items with secondary classifications in 73-01
- Bolotin, V. V. ★ Stability problems in fracture mechanics. (English summary) 97b:73077
 Chung, T. J. ★ Applied continuum mechanics. (English summary) 97c:73002
 Gladwell, G. M. L. *see* Lebedev, L. P.; et al., 97d:47001
 Kythe, Prem K. ★ Fundamental solutions for differential operators and applications. (English summary) 97f:00009
 Lebedev, L. P. (with Vorovich, I. I.; Gladwell, G. M. L.) ★ Functional analysis. (English summary) 97d:47001
 Mandel, Jean ★ Cours de mécanique des milieux continus. (French) [Course on continuum mechanics] 97m:01107
 Vorovich, I. I. *see* Lebedev, L. P.; et al., 97d:47001

73-02 Research exposition (monographs, survey articles)

- Chung, T. J. ★ Applied continuum mechanics. (English summary) 97c:73002
 Entov, Vladimir M. *see* Gol'dshteyn, R. V., 97b:73001
 Feng, Kang (with Shi, Zhong Ci) ★ Mathematical theory of elastic structures. (English summary) 97b:73001
 Glocker, Christoph *see* Pfeiffer, Friedrich, 97g:73001
 Gol'dshteyn, R. V. (with Entov, Vladimir M.) ★ Qualitative methods in continuum mechanics. (English summary) 97b:73001
 Gurtin, Morton E. ★ Thermomechanics of evolving phase boundaries in the plane. 97k:73001
 Kameyazaki, Ya. A. ★ Limit analysis of solids and structures. (English summary) 97h:73002
 Kulikovskii, A. G. (with Sveshnikova, E. I.) ★ Nonlinear waves in elastic media. 97h:73003
 Panagiotopoulos, Panagiotis D. ★ Hemivariational inequalities. 97c:73001
 (Pashchenko, N. T.) *see* Kulikovskii, A. G., 97h:73003
 Pfeiffer, Friedrich (with Glocker, Christoph) ★ Multibody dynamics with unilateral contacts. (English summary) 97g:73001
 Pshenichnov, G. I. ★ A theory of latticed plates and shells. 97h:73001
 Rajagopal, K. R. (with Tao, L.) ★ Mechanics of mixtures. 97a:73001
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 (Wilberg, N.-E.) *see* Advances in finite element technology, 97g:73002

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- Advances in finite element technology ★ Advances in finite element technology. 97g:73002
 Göteborg ★ Advances in finite element technology. 97g:73002
 Seminar:

Computational Mechanics ★ Advances in finite element technology. 97g:73002

Workshop:

Computational Mechanics ★ Advances in finite element technology. 97g:73002

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- (Athuri, Satya N.) *see* Reissner, Eric, 97b:01030
 Blekhan, I. I. ★ Вибрационная механика. (Russian. English and Russian summaries) [Vibration mechanics] 97c:70011
 Dem'yanov, Vladimir F. (with Stavroulakis, Georgios E.; Polyakova, L. N.; Panagiotopoulos, Panagiotis D.) ★ Quasidifferentiability and nonsmooth modelling in mechanics, engineering and economics. (English summary) 97h:49001
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 (Lardner, Thomas J.) *see* Reissner, Eric, 97b:01030
 Panagiotopoulos, Panagiotis D. *see* Dem'yanov, Vladimir F.; et al., 97h:49001
 Phan-Thien, Nhan (with Kim, Sangtae) ★ Microstructures in elastic media. 97c:73058
 Polyakova, L. N. *see* Dem'yanov, Vladimir F.; et al., 97h:49001
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 (Wan, Frederic Y. M.) *see* Reissner, Eric, 97b:01030
 (Wheeler, Mary Fanett) *see* Environmental studies, 97f:00012

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Biography:

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73-03 Historical (must also be assigned at least one classification number from Section 01)

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- (Athuri, Satya N.) *see* Reissner, Eric, 97b:01030

- Ignatieff, Yurie A. ★ The mathematical world of Walter Noll. (English summary) 97m:01070
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73-06 Proceedings, conferences, collections, etc.

- (Carroll, Michael M.) *see* Nonlinear effects in fluids and solids, 97c:73002
 (Galdi, Giovanni P.) *see* Stability and wave propagation in fluids and solids, 97d:73001
 (Hayes, Michael A.) *see* Nonlinear effects in fluids and solids, 97c:73002
 (Kounadis, A. N.) *see* Nonlinear stability of structures, 97g:73003
 (Krätzig, W. B.) *see* Nonlinear stability of structures, 97g:73003
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- Symposium:
- Boundary Integral Methods for Nonlinear Problems ★ IABEM Symposium on Boundary Integral Methods for Nonlinear Problems. 97k:73003
- Continuum Models and Discrete Systems ★ Continuum models and discrete systems. 97k:73002
- Udine ★ Stability and wave propagation in fluids and solids. 97d:73001
- ★ Nonlinear stability of structures. 97g:73003
- Varna ★ Continuum models and discrete systems. 97k:73002

Items with secondary classifications in 73-06

- (Aliahi, M. H.) *see* Boundary elements, 97f:65005
 (Antontsev, S. N.) *see* Energy methods in continuum mechanics, 97h:00011
 (Bandle, C.) *see* Calculus of variations, applications and computations, 97f:00016
 (Bemelmans, Josef) *see* Calculus of variations, applications and computations, 97f:00016
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 (Brebba, C. A.) *see* Numerical methods in engineering simulation, 97a:76004 and Boundary elements, 97f:65005
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 (Epstein, Marcelo) *see* Proceedings: Meeting on Current Ideas in Mechanics and Related Fields, 97f:00025
 (Gajardo, C.) *see* Numerical methods in engineering simulation, 97a:76004
 (Graham, G. A. C.) *see* Crack and contact problems for viscoelastic bodies, 97k:73064
 (Haie, N.) *see* Boundary elements, 97f:65005
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- (Mahrenholtz, Oskar) *see* ICIAM/GAMM 95, 97m:00017a and 97m:00017b
 (Martins, J. B.) *see* Boundary elements, 97f:65005
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73A05 Axiomatics, foundations of solid mechanics

- Senashov, S. I. Lie groups and mechanics of deformable solid. (English summary) 97f:73001

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- Brocato, Maurizio On the "Cauchy relations": from an array of particles to the equivalent continuum. (Italian. English and Italian summaries) 97f:73010
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73Bxx Continuum mechanics of solids (constitutive description and properties)

Items with secondary classifications in 73Bxx

- Ignatieff, Yurie A. ★ The mathematical world of Walter Noll. (English summary) 97m:01070
 (Markov, Konstantin Z.) *see* Continuum models and discrete systems, 97k:73002
 (Noll, Walter) *see* Ignatieff, Yurie A., 97m:01070

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- Continuum models and discrete systems** ★ Continuum models and discrete systems. 97k:73002
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73B05 Constitutive equations

- Alves, B. K. *see* Alves, M. K., 97f:73002
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 Rogers, Robert C. Some remarks on nonlocal interactions and hysteresis in phase transitions. (English summary) 97a:73003
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 — Two general representation theorems for arbitrary-order-tensor-valued isotropic and anisotropic tensor functions of vectors and second order tensors. (English and German summaries) 97a:73005
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- Brokate, Martin** (with Sprekels, Jürgen) ★ Hysteresis and phase transitions. (English summary) 97g:35127
- Campanella, Antonietta** see **Toson, Maria Luisa**, 97f:73052
- De Tommasi, Domenico** Elastic bodies reinforced with inextensible surfaces. (English summary) 97m:73015
- Dubey, R. N.** see **Reinhardt, W. D.**, 97f:73039
- Ehrentauf, H.** (with Muschik, Wolfgang) Balance laws and constitutive equations for liquid crystals. 97f:76012
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- Xiao, Heng** On isotropic extension of anisotropic tensor functions. (English and German summaries) 97f:73017

73B10 Symmetry groups

- He, Q.-C.** (with Zheng, Quan Shui) On the symmetries of 2D elastic and hyperelastic tensors. (English summary) 97f:73004
- Zheng, Quan Shui** see **He, Q.-C.**, 97f:73004

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- Turteltaub, Sergio** (with Wheeler, Lewis) Expressions for the gradients of the principal stresses and their application to interior stress concentration. (English summary) **97d:73002**
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- Pozdnev, V. A.** ★ Нестационарные волновые поля в областях с подвижными границами. (Russian. Russian summary) [Nonstationary wave fields in regions with moving boundaries] **97j:73011**

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- Beatty, M. F.** Introduction to nonlinear elasticity. (English summary) **97h:73025**
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- Inoue, Hirotugu** see Kishimoto, Kikuo; et al. **97h:73032**
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- Murray, J. D.** see Zhu, Mei. **97h:92003**
- Shibuya, Toshikazu** see Kishimoto, Kikuo; et al. **97h:73032**
- Trinh Anh Ngoc** (with Dang Duc Trong) Impact of a viscoplastic rod against an elastic obstacle. **97a:73045**
- Zhong, Xiaoguang** Dynamic behavior of the interface between two solid phases in an elastic bar. (English summary) **97j:73013**
- Zhu, Mei** (with Murray, J. D.) Parameter domains for spots and stripes in mechanical models for biological pattern formation. (English summary) **97h:92003**

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- Hanza, Farid A.** On the existence and uniqueness of the solution of dynamic nonlinear problems of the theory of elasticity. (English summary) **97d:73010**
- Senitskii, Yu. É.** A biorthogonal multicomponent finite integral transformation and its application to boundary value problems in mechanics. (Russian) **97m:73019**

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- Bakulin, A. V.** see Molotkov, L. A. **97i:73040** and **97i:73041**
- Boulanger, Ph.** (with Hayes, Michael A.) Waves in elastic media. (see **97d:73001**)
- Burridge, Robert** see Lewicki, Pawel; et al. **97i:73039**
- Chadwick, Paul** Wave propagation in incompressible transversely isotropic elastic media. I. Homogeneous plane waves. (English summary) **97i:73036**
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- (with Wilson, N. J.) Wave propagation in incompressible transversely isotropic elastic media. III. Surface waves. (English summary) **97i:73038**
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- Cheng, Jin¹** see Chen, Jun Ying. **97g:73030**
- Édel'man, I. Ya.** see Maksimov, A. M.; et al.
- Erbay, Saadet** Solitons in micropolar crystals. (English summary) (see **97k:73002**)
- Hayes, Michael A.** see Boulanger, Ph. **(97d:73001)**
- de Hoop, Maarten V.** see Lewicki, Pawel; et al. **97i:73039**
- Klimenko, K. G.** see Vshitsv, A. S.; et al. **97i:73042**
- Lewicki, Pawel** (with Burridge, Robert; de Hoop, Maarten V.) Beyond effective medium theory: pulse stabilization for multimode wave propagation in high-contrast layered media. (English summary) **97i:73039**
- Maksimov, A. M.** (with Radkevich, E. V.; Édel'man, I. Ya.) On the nonperiodic motion that arises during nonlinear wave propagation in saturated porous media. (Russian)
- Manolis, George D.** (with Shaw, Richard Paul) Green's function for the vector wave equation in a mildly heterogeneous continuum. (English summary) **97h:73029**

- Molotkov, L. A. (with Bakulin, A. V.) An effective model of a layered elastic-fluid medium as a special case of the Biot model. (Russian. English and Russian summaries) 97k:73040
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- Chen, Zhangxin Finite element analysis for wave propagation in inhomogeneous elastic media. (English summary) 97j:73073
 Dhaliwal, Ranjit S. (with Majumdar, Samir R.; Wang, Jun⁴) Thermoelastic waves in an infinite solid caused by a line heat source. (English summary) 97k:73007
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 Hetnarski, Richard B. (with Ignaczak, Józef) Soliton-like waves in a low-temperature nonlinear thermoelastic solid. (English summary) 97j:73005
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 Kiselev, Yu. V. (with Kashtan, B. M.) Reflection-refraction and head waves of SH type formed on a thin layer that is in rigid contact with two elastic half-spaces. (Russian. English and Russian summaries) 97m:73022
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 Kulikovskii, A. G. (with Sveshnikova, E. I.) ★ Nonlinear waves in elastic media. 97h:73003
 Lin, Xiao ★ Numerical computation of stress waves in solids. (English summary) 97j:73070
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 Muravskii, G. On time-harmonic problem for non-homogeneous elastic half-space with shear modulus limited at infinite depth. (English summary)
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73D20 Surface waves

- Arefev, A. V. (with Kiselev, A. P.) Viscoelastic Rayleigh waves in a weakly laterally varying layered structure. (Russian. English and Russian summaries) 97h:73027
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- Klecha, T. Surface stress waves in a nonhomogeneous elastic half-space. I. General results based on spectral analysis. Existence and analyticity theorems. (English summary) 97j:73020
 — Surface stress waves in a nonhomogeneous elastic half-space. II. Existence of surface waves for an arbitrary variation of Poisson's ratio. Approximate solution based on perturbation methods. (English summary) 97j:73021
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 Mondal, Achinta Kumar see Sengupta, Sudipta; et al.
 Nath, Sisir (with De, Nibedita; Sengupta, P. R.) Surface waves in micropolar-thermoviscoelastic media under the influence of gravity. (English summary)
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- Abrahams, I. David Radiation and scattering of waves on an elastic half-space; a non-commutative matrix Wiener-Hopf problem. (English summary) 97h:73044
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 Clarietta, Michele (with Sumbatyan, M. A.) Interaction of an oblique incident elastic wave with a pair of surface-breaking cracks. (English summary)
 Connor, Paul (with Ogden, R. W.) The influence of shear strain and hydrostatic stress on stability and elastic waves in a layer. (English summary) 97h:73034
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- Shi, Shou Xia (with Han, Feng; Wang, Zhen Qing; Liu, Dian Kui) The interaction of plane SH-waves and non-circular cavity surfaced with lining in anisotropic media. (Chinese. English and Chinese summaries) 97b:73033
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- Zhang, Zi Mao (with Ma, Xing Rui; Zou, Zhen Zhu; Wang, Duo) Scattering of elastic waves by multiple noncoplanar interface Griffith cracks in a layered medium. (Chinese. English and Chinese summaries) 97b:73033
- Zou, Zhen Zhu see Zhang, Zi Mao; et al.

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- Abrahams, I. David On the solution of Wiener-Hopf problems involving noncommutative matrix kernel decompositions. (English summary) 97m:35041
- Achenbach, J. D. see Wang, Canyon; et al., 97g:73107
- Alekseeva, L. A. (with Dil'dabaev, Sh. A.; Zakir'yanova, G. K.; Zhanbyrbayev, A. B.) Boundary integral equations method in two- and three-dimensional problems of elastodynamics. (English summary) 97e:73071
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- Goldstein, Jerome A. (with Shi, Gen Bao) Obstacle scattering for elastic waves. 97f:47060
- Hirose, Sohichi see Wang, Canyon; et al., 97g:73107
- de Hoop, Adrianus T. ★ Handbook of radiation and scattering of waves. (English summary) 97b:76113
- (with de Hoop, Maarten V.) Acoustic, elastodynamic, and electromagnetic wavefield computation—a structured approach based on reciprocity. (English summary) 97c:73078
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- Chiriță, Stan (with Quintanilla, R.) On Saint-Venant's principle in linear elastodynamics. (English summary) 97f:73012
- Feng, Xiaobing An elliptic regularity coefficient estimate for the equations of the motion for nearly elastic solids in the frequency domain. (English and Portuguese summaries) 97a:73037
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- Hu, Bin (with Schiehlen, W.) Eigenvalue, frequency response and variance bounds of linear damped systems. (English summary) 97b:76114
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- Kulikovskii, A. G. (with Sveshnikova, E. I.) ★ Nonlinear waves in elastic media. 97h:73003
- Liu, Defu Behavior as $t \rightarrow \infty$ of the solutions of the linear system of elastic theory on non-star-shaped exterior domains. (English summary) 97j:35145
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- Two-dimensional steady-state oscillation problems of anisotropic elasticity. (English summary) 97c:73017
- Panasenko, G. P. Multicomponent homogenization of the vibration problem for incompressible media with heavy and rigid inclusions. (English and French summaries) 97j:73003
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- Paulsen, William H. Eigenfrequencies of the three-dimensional Euler-Bernoulli beam system with dissipative joints. (Chinese. English and Chinese summaries) 97j:73047
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- Stability and Wave Propagation in Fluids and Solids ★ Stability and wave propagation in fluids and solids. 97d:73001
- Stability and wave propagation in fluids and solids ★ Stability and wave propagation in fluids and solids. 97d:73001
- Udine ★ Stability and wave propagation in fluids and solids. 97d:73001

73D35 Nonlinear vibrations [see also 70Kxx]

- Chiroiu, Veturia** (with Munteanu, Ligia) Solitons in mechanics of solids. II. A one-dimensional wave problem. (English summary) **97f:73013**
- Fu, Yibin** (with Zheng, Quan Shui) Nonlinear travelling waves in a neo-Hookean plate subjected to a simple shear. (English summary) **97j:73024**
- Iannelli, Angela** (with Prouse, Giovanni; Veneziani, Alessandro) Analysis of a nonlinear model of the vibrating string. (English summary) **97c:73024**
- Kovriguine, D. A.** (with Potapov, A. I.) Nonlinear waves in elastic bar. (English summary) **97g:73032**
- Lin, Yier** A Riemann problem for an elastic bar that changes phase. (English summary) **97e:73028**
- Munteanu, Ligia** see **Chiroiu, Veturia**, **97f:73013**
- Potapov, A. I.** see **Kovriguine, D. A.**, **97g:73032**
- Prouse, Giovanni** see **Iannelli, Angela**; et al., **97c:73024**
- Shestopalov, V. P.** A scheme for constructing nonlinear evolution equations near Morse critical points. (Russian. English summary) **97h:73034**
- Teymur, M.** Small but finite amplitude waves in a two-layered incompressible elastic medium. (English summary) **97a:73041**
- Veneziani, Alessandro** see **Iannelli, Angela**; et al., **97c:73024**
- Zheng, Quan Shui** see **Fu, Yibin**, **97j:73024**

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- Banks, H. T.** (with Lybeck, Nancy J.; Gaitens, M. J.; Muñoz, B. C.; Yanyo, L. C.) Computational methods for estimation in the modeling of nonlinear elastomers. (English summary) **97k:73025**
- Callegari, Emanuele** (with Manfrin, Renato) Global existence for nonlinear hyperbolic systems of Kirchhoff type. (English summary) **97j:35088**
- Cazenave, Thierry** (with Weissler, Fred B.) Unstable simple modes of the nonlinear string. (English and French summaries) **97k:35153**
- Chiroiu, Veturia** (with Munteanu, Ligia) Solitons in mechanics of solids. I. Thin elastic rod. (English summary) **97b:73046**
- Demiray, Hüsnü** Nonlinear waves in a prestressed thick elastic tube filled with an inviscid fluid. (English summary) **97g:73077**
- Dichmann, Donald J.** (with Maddocks, John H.; Pego, R. L.) Hamiltonian dynamics of an elastica and the stability of solitary waves. (English summary) **97m:58072**
- Do-Duc, Hung** Global existence of elastic waves in nonlinear elastodynamics. (English summary) **97m:35248**
- Falangová, Eva** Attractor for a beam equation with weak damping. (English summary) **97h:35219**
- Fitzgibbon, W. E.** (with Parrott, M. E.) Approximation of strongly damped string equations by strongly damped beam equations. **97i:35173**
- Gaitens, M. J.** see **Banks, H. T.**; et al., **97k:73025**
- Grassini, Elena** An inequality associated with a nonlinear vibrating rod model. (Italian. English summary) **97k:73040**
- Green, William A.** see **Harrison, Martin C.**; et al., **(97g:00022)**
- Hamza, Farid A.** On the existence and uniqueness of the solution of dynamic nonlinear problems of the theory of elasticity. (English summary) **97d:73010**
- Harrison, Martin C.** (with Kane, S. J.; Green, William A.) Forced impact vibration of a delaminated beam. (English summary) (see **97g:00022**)
- Iavernaro, F.** (with Trigiante, Donato) Soliton-like solutions of the discrete wave equation. (English summary) (see **97a:00029**)
- Janno, Jaan** (with Ravasoo, Arvi) The method of finite differences in solving an inverse problem for oscillation of nonlinear viscoelastic rod. (English, Russian and Estonian summaries) **97b:73037**
- Kane, S. J.** see **Harrison, Martin C.**; et al., **(97g:00022)**
- Krishna, L. G.** see **Shahruz, S. M.**, **97h:73066** and **97i:73061**
- Lai, Shao Yong** The asymptotic theory of an initial value problem for a vibrating equation of an infinite beam on Sobolev's space. (English and Chinese summaries) **97m:35251**
- Lybeck, Nancy J.** see **Banks, H. T.**; et al., **97k:73025**
- Maddocks, John H.** see **Dichmann, Donald J.**; et al., **97m:58072**
- Manfrin, Renato** see **Callegari, Emanuele**, **97j:35088**
- Muñoz, B. C.** see **Banks, H. T.**; et al., **97k:73025**
- Munteanu, Ligia** see **Chiroiu, Veturia**, **97b:73046**
- Parrott, M. E.** see **Fitzgibbon, W. E.**, **97i:35173**
- Pego, R. L.** see **Dichmann, Donald J.**; et al., **97m:58072**
- Puel, Jean-Pierre** (with Tucsnak, Marius) Global existence for the full von Kármán system. (English summary) **97d:35219**
- Ravasoo, Arvi** see **Janno, Jaan**, **97b:73037**
- Restuccia, Liliana** On the wave propagation in a nonlinear inelastic rod. (English summary) **97h:73055**
- Shahruz, S. M.** (with Krishna, L. G.) Boundary control of a non-linear string. **97h:73066**
- (with Krishna, L. G.) Bounded displacement of a damped non-linear string. **97i:73061**
- Sideris, Thomas C.** The null condition and global existence of nonlinear elastic waves. **97a:35158**
- Toland, J. F.** The Peierls-Nabarro and Benjamin-Ono equations. (English summary) **97m:35235**
- Trigiante, Donato** see **Iavernaro, F.**, **(97a:00029)**
- Tucsnak, Marius** see **Puel, Jean-Pierre**, **97d:35219**
- Utkin, G. A.** On a nonlinear boundary value problem of mathematical physics. (English summary) **97d:35148**
- Weissler, Fred B.** see **Cazenave, Thierry**, **97h:35153**
- Yanyo, L. C.** see **Banks, H. T.**; et al., **97k:73025**

73D40 Singular surfaces

- de Boer, Reint** (with Liu, Zhangfang) Growth and decay of acceleration waves in incompressible saturated poroelastic solids. (English and German summaries) **97g:73029**
- Liu, Zhangfang** see **de Boer, Reint**, **97g:73029**

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- Blokhin, A. M.** A study of strong discontinuities stability in continuum mechanics. (English summary) **97c:35198**
- Brannon, R. M.** (with Drugan, W. J.; Shen, Yinong) Requirements of thermodynamics in the analysis of elastic-plastic shock waves. (English summary) **97c:73027**
- Drugan, W. J.** see **Brannon, R. M.**; et al., **97c:73027**
- Kulikovskii, A. G.** (with Sveshnikova, E. I.) ★ Nonlinear waves in elastic media. **97h:73003**
- (Pashchenko, N. T.)** see **Kulikovskii, A. G.**, **97h:73003**
- Sadovskii, V. M.** On the stationary stability of elastoplastic shock waves. (Russian. English and Russian summaries) **97m:73029**
- Shen, Yinong** see **Brannon, R. M.**; et al., **97c:73027**
- Sveshnikova, E. I.** see **Kulikovskii, A. G.**, **97h:73003**
- Tzavaras, Athanasios E.** Elastic as limit of viscoelastic response, in a context of self-similar viscous limits. (English summary) **97j:73033**

73D50 Inverse problems [see also 35Lxx, 35R30]

- Armentano, Maria G.** (with Fernández Berdaguer, Elena M.; Santos, Juan E.) A frequency domain parameter estimation procedure in viscoelastic layered media. (English and Portuguese summaries) **97g:73033**
- Asch, M.** (with Kohler, Werner E.; Papanicolaou, George C.; Postel, M.; White, Benjamin S.) Statistical inversion from reflections of spherical waves by a randomly layered medium. (English summary) **97g:73034**
- Avdeev, A. V.** (with Goryunov, E. V.; Priimenko, V. I.) ★ An inverse problem of electro-magnetoelectricity with unknown source of elastic oscillations. (English and Russian summaries) **97m:73023**
- Fernández Berdaguer, Elena M.** see **Armentano, Maria G.**; et al., **97g:73033**
- Go'din, S. V.** Ray reflection tomography: review and comments. (English summary) **97b:73034**
- Goryunov, E. V.** see **Avdeev, A. V.**; et al., **97m:73023**
- Kohler, Werner E.** see **Asch, M.**; et al., **97g:73034**
- Kress, Rainer** Inverse elastic scattering from a crack. (English summary) **97k:73029**
- Papanicolaou, George C.** see **Asch, M.**; et al., **97g:73034**
- Postel, M.** see **Asch, M.**; et al., **97g:73034**
- Priimenko, V. I.** see **Avdeev, A. V.**; et al., **97m:73023**
- Rakesh** (with Sacks, Paul) Impedance inversion from transmission data for the wave equation. (English summary) **97j:73025**
- Sacks, Paul** see **Rakesh**, **97j:73025**
- Santos, Juan E.** see **Armentano, Maria G.**; et al., **97g:73033**
- Tadi, M.** Explicit method for inverse wave scattering in solids. (English summary) **97m:73024**
- White, Benjamin S.** see **Asch, M.**; et al., **97g:73034**

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- Aben, Hillar** (with Puro, Alfred) Photoelastic tomography for three-dimensional flow birefringence studies. (English summary)
- Darwish, A. A.** On an inverse scattering method for solving non-linear equations in non-homogeneous media. (English summary) **97i:35151**
- Frolik, Jeffrey L.** see **Yagle, Andrew E.**, **97k:78023**
- de Hoop, Maarten V.** Generalization of the Bremmer coupling series. (English summary) **97j:35152**
- Liu, Jia Qi** see **Qian, Jian Liang**; et al.
- Pavlov, V. M.** On the nonuniqueness of the inverse problem for a deep earthquake source. (Russian) **97i:86007**
- Potthast, Roland** On two new methods in inverse scattering. (English summary) **97i:86011**
- Puro, Alfred** see **Aben, Hillar**
- Qian, Jian Liang** (with Yang, Guang; Liu, Jia Qi) A pulse spectrum technique-multigrid method iterative algorithm for the inverse problem of the two-dimensional elastic wave equation. (Chinese. English and Chinese summaries)
- Romeo, Maurizio** Wave scattering from biased elastic dielectrics. (English and Italian summaries) **97k:73066**
- Sharafutdinov, V. A.** ★ Integral geometry of tensor fields. **97h:53077**
- Steinberg, Lev G.** Inverse spectral problems for thermoelastic cylinders and bars. (English summary) **97j:73012**
- Yagle, Andrew E.** (with Frolik, Jeffrey L.) On the feasibility of impulse reflection response data for the two-dimensional inverse scattering problem. (English summary) **97k:78023**
- Yakhno, V. G.** Inverse problems for a system of differential equations of elasticity. (Russian) (see **97m:35003**)
- Yang, Guang** see **Qian, Jian Liang**; et al.

73D70 Random waves

- Kohler, Werner E.** (with Papanicolaou, George C.; White, Benjamin S.) Localization and mode conversion for elastic waves in randomly layered media. I. (English summary) **97c:73025a**
- (with Papanicolaou, George C.; White, Benjamin S.) Localization and mode conversion for elastic waves in randomly layered media. II. (English summary) **97c:73025b**
- Papanicolaou, George C.** see **Kohler, Werner E.**; et al., **97c:73025a** and **97c:73025b**
- White, Benjamin S.** see **Kohler, Werner E.**; et al., **97c:73025a** and **97c:73025b**

73D99 None of the above, but in this section

- Geers, Thomas L.** (with Lewis, Brett A.) Doubly asymptotic approximations for transient elastodynamics. (English summary) **97m:73025**
- Lewis, Brett A.** see **Geers, Thomas L.**, **97m:73025**
- Man, Chi-Sing** (with Paroni, Roberto) On the separation of stress-induced and texture-induced birefringence in acoustoelasticity. (English summary) **97h:73035**
- Natroshtvili, D. G.** Boundary-contact problems of the steady-state oscillation theory for a piecewise-homogeneous elastic medium. (Russian and Georgian summaries) **97h:73036**
- Paroni, Roberto** see **Man, Chi-Sing**, **97h:73035**

Items with secondary classifications in 73D99

- Anisimov, S. A. An algorithm for constructing monotone numerical solutions of the plane dynamic problem of elasticity on the basis of successive approximations. (Russian. English and Russian summaries) 97m:73058
- Boştină, M. see Chiroiu, Veturia; et al., 97f:73014a and 97f:73014b
- Budaev, B. V. (with Morozov, N. F.; Narbut, M. A.) Saint Venant's principle in statical and dynamical problems for an elastic wedge and a cone. (English summary) 97a:73027
- Caillerie, Denis Étude générale d'un type de problèmes raides et de perturbation singulière. (English and French summaries) [General study of a kind of singular-stiff problem] 97f:47137
- Chiroiu, Veturia (with Nicolae, V.; Munteanu, Ligia; Boştină, M.) Comments concerning mechanical radiation. II. The rheonomic model and the dipolar radiation model. (Romanian. Romanian summary) 97f:73014a
- (with Nicolae, V.; Munteanu, Ligia; Boştină, M.) Comments concerning mechanical radiation. III. Numerical applications. (Romanian. Romanian summary) 97f:73014b
- Ebin, David G. Global solutions of the equations of elastodynamics for incompressible materials. (English summary) 97f:73026
- Giovine, Pasquale (with Oliveri, Francesco) Dynamics and wave propagation in dilatant granular materials. (English and Italian summaries) 97e:73057
- Konotop, Vladimir V. (with Vázquez, L. V.) ★ Nonlinear random waves. 97f:35168
- Lazzari, Barbara (with Vuk, Elena) Asymptotic behaviour for symmetric hyperbolic dissipative systems. (English summary) 97k:35156
- Mariano, Paolo Maria Nöther's theorem in the elastic dynamics of microcracked bodies. 97e:73057
- Mimura, Fumitake (with Nôno, Takayuki) A method for deriving new conservation laws of a system of partial differential equations. 97k:58179
- Morozov, N. F. see Budaev, B. V.; et al., 97a:73027
- Munteanu, Ligia see Chiroiu, Veturia; et al., 97f:73014a and 97f:73014b
- Narbut, M. A. see Budaev, B. V.; et al., 97a:73027
- Nicolae, V. see Chiroiu, Veturia; et al., 97f:73014a and 97f:73014b
- Nôno, Takayuki see Mimura, Fumitake, 97k:58179
- Oliveri, Francesco see Giovine, Pasquale, 97e:73057
- Peirce, A. (with Siebrits, E.) Stability analysis and design of time-stepping schemes for general elastodynamic boundary element models. (English summary) 97g:73106
- Remoissenet, M. ★ Waves called solitons. (English summary) 97d:35001
- Saint Jean Paulin, Jeannine (with Vanninathan, Muthusamy) Contrôlabilité exacte de vibrations de corps élastiques minces. (English and French summaries) [Exact controllability of vibrations of thin elastic bodies] 97b:93015
- Siebrits, E. see Peirce, A., 97g:73106
- Vanninathan, Muthusamy see Saint Jean Paulin, Jeannine, 97b:93015
- Vázquez, L. V. see Konotop, Vladimir V., 97f:35168
- Vuk, Elena see Lazzari, Barbara, 97k:35156

73Exx Plasticity

73E05 Constitutive specifications (yield criteria, flow rules, hardening, softening)

- Artëmov, M. A. (with Ivlev, D. D.) On general relations in the theory of ideal plasticity with piecewise-linear flow conditions. (Russian)
- Brokate, Martin (with Drebler, Klaus; Krejčí, Pavel) The Mróz model: a hysteresis operator for rate-independent plasticity. (English summary) (see 97a:00029)
- (with Drebler, Klaus; Krejčí, Pavel) On the Mróz model. (English summary) 97h:73037
- Charalambakis, N. (with Doudoumis, I.; Rigatos, A.) On the "inertial" time in instability of materials with non-monotone yield stress. (English summary)
- Doudoumis, I. see Charalambakis, N.; et al.
- Drebler, Klaus see Brokate, Martin; et al., 97h:73037 and (97a:00029)
- Dubey, R. N. see Reinhardt, W. D., 97h:73039
- Hackl, Klaus Generalized standard media and variational principles in classical and finite strain elastoplasticity. (English summary) 97m:73026
- Hill, James M. (with Wu, Yong-Hong) The punch problem for shear-index granular materials. (English summary) 97f:73026
- Ivlev, D. D. see Artëmov, M. A.
- Kamlah, M. (with Korzeń, M.; Tsakmakis, Ch.) Uniaxial ratchetting in rate-independent plasticity laws. (English summary) 97m:73027
- Korzeń, M. see Kamlah, M.; et al., 97m:73027
- Krejčí, Pavel see Brokate, Martin; et al., 97h:73037 and (97a:00029)
- Marotti de Sciarra, F. A consistent approach to continuum and discrete rate elastoplastic structural problems. (English summary) 97h:73038
- Peters, John F. see Valanis, K. C., 97a:73042
- Plohr, Bradley J. Mathematical modeling of plasticity in metals. (English summary) 97f:73027
- Prasolov, P. Ph. A strain-based relaxation theory of plasticity for anisotropic metals. (English summary)
- Reinhardt, W. D. (with Dubey, R. N.) Application of objective rates in mechanical modeling of solids. (English summary) 97h:73039
- Rigatos, A. see Charalambakis, N.; et al.
- Srinivasa, A. R. On the nature of the response functions in rate-independent plasticity. (English summary) 97k:73030
- Tsakmakis, Ch. see Kamlah, M.; et al., 97m:73027
- Valanis, K. C. (with Peters, John F.) Ill-posedness of the initial and boundary value problems in non-associative plasticity. (English summary) 97a:73042
- Weinberger, Hans F. Degenerate elliptic models for perfectly plastic flows. 97f:73028
- Wu, Yong-Hong see Hill, James M., 97f:73026

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- Bendali, Karim Une solution numérique au problème de consolidation et fluage des sols. (English, French and Arabic summaries) [A numerical solution of the problem of soil

- consolidation and creep]
- Benhatira, Fafa see Nesnas, Karim; et al., 97k:73077
- Bezzina, Smail see Nesnas, Karim; et al., 97k:73077
- Bufler, H. see Huang, Mo Jia, 97g:73028
- Comi, C. (with Corigliano, A.) On uniqueness of the dynamic finite-step problem in gradient-dependent softening plasticity. (English summary) 97g:73037
- Corigliano, A. see Comi, C., 97g:73037
- Durban, D. (with Papanastasiou, P.) Cylindrical cavity expansion and contraction in pressure sensitive geomaterials. (English summary)
- Garaizar, Xabier (with Gordon, Michael K.) Riemann problems for an elastoplastic model for antiplane shearing with a nonassociative flow rule. (English summary) 97f:73050
- García Garino, Carlos (with Oliver, Javier) A constitutive model for the analysis of elastoplastic solids subject to large deformations. II. Numerical implementation and examples of application. (Spanish. English and Spanish summaries) 97f:73058
- Gordon, Michael K. see Garaizar, Xabier, 97f:73050
- Huang, Mo Jia (with Bufler, H.) On a self-consistent method to the analyses of elastic and elastoplastic materials with inclusions. (English and German summaries) 97g:73028
- Kokurin, M. Yu. On passage to the limit in variational problems in plasticity theory. (Russian) 97h:73042
- Meyer, Arnd (with Michael, Detlef) A modern approach to the solution of problems of classic elastoplasticity on parallel computers. (English summary)
- Michael, Detlef see Meyer, Arnd
- Neilsen, M. K. see Schreyer, H. L., 97a:73004
- Nesnas, Karim (with Benhatira, Fafa; Bezzina, Smail; Saanouni, Khemais) On some integration schemes for rate equations of damaged elastoplastic solids. (English and French summaries) 97k:73077
- Oliver, Javier see García Garino, Carlos, 97f:73058
- Papanastasiou, P. see Durban, D.
- Saanouni, Khemais see Nesnas, Karim; et al., 97k:73077
- Schreyer, H. L. (with Neilsen, M. K.) Analytical and numerical tests for loss of material stability. (English summary) 97a:73004

73E20 Limit analysis

- Badhrinath, K. see Muralidhar, R.; et al., 97h:73040
- Borino, Guido see Polizzotto, Castrenze, 97g:73036 and 97f:73047
- Carter, K. F. see Ponter, A. R. S., 97f:73048
- Fuschi, P. see Polizzotto, Castrenze; et al., 97f:73047
- Giambanco, F. (with Palizzolo, L.) Computation of bounds on chosen measures of real plastic deformation for beams. (English summary) 97g:73035
- Kalagatla, A. see Muralidhar, R.; et al., 97h:73040
- Muralidhar, R. (with Rao, J. R. Jagannatha; Badhrinath, K.; Kalagatla, A.) Multilevel formulations in the limit analysis and design of structures with bilateral contact constraints. (English summary) 97h:73040
- Palizzolo, L. see Giambanco, F., 97g:73035
- Polizzotto, Castrenze (with Borino, Guido; Fuschi, P.) An extended shakedown theory for elastic-plastic-damage material models. (English summary) 97f:73047
- (with Borino, Guido) Shakedown and steady-state responses of elastic-plastic solids in large displacements. (English summary) 97g:73036
- Ponter, A. R. S. (with Carter, K. F.) Shakedown state simulation techniques based on linear elastic solutions. (English summary) 97f:73048
- Qi, Lique see Tin-Loi, F.; et al., 97h:73041
- Rao, J. R. Jagannatha see Muralidhar, R.; et al., 97h:73040
- Tin-Loi, F. (with Qi, Lique; Wei, Zeng Xin; Womersley, Robert S.) Stochastic ultimate load analysis: models and solution methods. (English summary) 97h:73041
- Wei, Zeng Xin see Tin-Loi, F.; et al., 97h:73041
- Womersley, Robert S. see Tin-Loi, F.; et al., 97h:73041

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- Alfano, G. (with Marotti de Sciarra, F.) Mixed finite element formulations and related limitation principles: a general treatment. (English summary) 97k:73071
- Gao, Yang Post-yield analysis for rigid-plastic plates with large deflections. (English summary) 97f:73042
- Guessab, B. see Turgeman, S.; et al.
- Guessasma, M. see Turgeman, S.; et al.
- Kamenyazh, Ya. A. ★ Limit analysis of solids and structures. (English summary) 97h:73002
- Marotti de Sciarra, F. see Alfano, G., 97k:73071
- Muralidhar, R. (with Rao, J. R. Jagannatha) New models for optimal truss topology in limit design based on unified elastic/plastic analysis. (English summary) 97f:73078
- Nebogotov, V. M. (with Nemirovskii, Yu. V.) Use of sufficient criteria for optimality in designing inhomogeneous plastic structures. (English summary) 97f:73059
- Nemirovskii, Yu. V. see Nebogotov, V. M., 97f:73059
- Rao, J. R. Jagannatha see Muralidhar, R., 97h:73078
- Turgeman, S. (with Guessasma, M.; Guessab, B.) Calcul des chargements extrêmes par résolution d'un problème de minimax sans contrainte. [Computing limit loads by solving a stress-free minimax problem]

73E50 Time-dependent problems

- Alber, Hans-Dieter (with Chelmiński, Krzysztof) Existence theory for the equations of inelastic material behavior of metals—transformation of interior variables and energy estimates. 97k:73031
- Bensoussan, Alain (with Frehse, Jens) Asymptotic behaviour of the time dependent Norton-Hoff law in plasticity theory and H^1 regularity. (English summary) 97d:73011
- Chelmiński, Krzysztof Global in time existence of solutions to the constitutive model of Bodner-Partom with isotropic hardening. 97f:73049
- see also Alber, Hans-Dieter, 97k:73031
- Comi, C. (with Corigliano, A.) On uniqueness of the dynamic finite-step problem in gradient-dependent softening plasticity. (English summary) 97g:73037

- Corigliano, A. *see* Comi, C., 97c:73037
- Elkoulani, Abdelmajid (with Leger, Alain) Solutions bifurquées du problème en vitesses initiales pour une poutre élastoplastique. (English and French summaries) [Bifurcating solutions of the initial velocity problem for an elastic-plastic beam] 97c:73026
- Frehe, Jens *see* Bensoussan, Alain, 97d:73011
- Garaizar, Xabier (with Gordon, Michael K.) Riemann problems for an elastoplastic model for antiplane shearing with a nonassociative flow rule. (English summary) 97b:73050
- Gordon, Michael K. *see* Garaizar, Xabier, 97b:73050
- Hoo Fatt, M. S. *see* Mihăilescu-Suliciu, M.; et al., 97b:73035
- Krejčí, Pavel A differential model of fatigue in elastoplastic materials. (English summary) (*see* 97a:00029)
- Kuksin, Sergei B. On classical solutions of the Prandtl-Reuss equations of perfect elastoplasticity. (English summary) 97j:73029
- Leger, Alain *see* Elkoulani, Abdelmajid, 97c:73026
- Mihăilescu-Suliciu, M. (with Suliciu, I.; Wierzbicki, T.; Hoo Fatt, M. S.) Transient response of an impulsively loaded plastic string on a plastic foundation. (English summary) 97b:73035
- Repin, S. I. (with Xanthis, Leonidas S.) A posteriori error estimation for elastoplastic problems based on duality theory. (English summary) 97k:73032
- Schaeffer, David G. *see* Shearer, Michael, 97m:73028
- Shearer, Michael (with Schaeffer, David G.) Riemann problems for 5×5 systems of fully non-linear equations related to hypoplasticity. (English summary) 97m:73028
- Suliciu, I. *see* Mihăilescu-Suliciu, M.; et al., 97b:73035
- Wierzbicki, T. *see* Mihăilescu-Suliciu, M.; et al., 97b:73035
- Xanthis, Leonidas S. *see* Repin, S. I., 97k:73032

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- Aronsson, Gunnar On p -harmonic functions, convex duality and an asymptotic formula for injection mould filling. (English summary) 97f:60007
- Charalambakis, N. (with Doudoumis, I.; Rigatos, A.) On the "inertial" time in instability of materials with non-monotone yield stress. (English summary)
- DiLellio, J. A. (with Olmstead, W. E.) Temporal evolution of shear band thickness. (English summary) 97k:73008
- Doudoumis, I. *see* Charalambakis, N.; et al.
- Kovtunen, V. A. Numerical solution of a contact problem for an elastoplastic beam by the penalty method. (Russian. English and Russian summaries)
- Olmstead, W. E. *see* DiLellio, J. A., 97k:73008
- Plohr, Bradley J. Mathematical modeling of plasticity in metals. (English summary) 97j:73027
- Rasle, M. Global existence of L^2 solutions in dynamical elasto-plasticity. (English summary) 97k:35255
- Rigatos, A. *see* Charalambakis, N.; et al.
- Shearer, Michael Fully nonlinear hyperbolic systems related to hypoplasticity. (*see* 97k:00016)
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- Hack, Michael *see* Dreffler, Klaus; et al.
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- Dichmann, Donald J. (with Li, Yiwei; Maddocks, John H.) Hamiltonian formulations and symmetries in rod mechanics. **97j:73038**
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73V99 None of the above, but in this section

- Zhang, Hong Qing¹ *see* Zheng, Yu, **97j:73078**
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76-XX Fluid mechanics {For general continuum mechanics, see 73Bxx, or other parts of 73-XX.}

76-01 Instructional exposition (textbooks, tutorial papers, etc.)

- Kleinstreuer, Clement ★ Engineering fluid dynamics. (English summary) 97m:76001
 Pozrikidis, C. ★ Introduction to theoretical and computational fluid dynamics. (English summary) 97c:76001
 Simmonds, James G. Analytic functions, ideal fluid flow, and Bernoulli's equation. (English summary) 97i:76001

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 Mandel, Jean ★ Cours de mécanique des milieux continus. (French) [Course on continuum mechanics] 97m:01107

76-02 Research exposition (monographs, survey articles)

- Beris, Antony N. (with Edwards, Brian J.) ★ Thermodynamics of flowing systems with internal microstructure. 97c:76001
 Cladis, P. E. ★ see Spatio-temporal patterns in nonequilibrium complex systems, 97i:76002
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 Hardin, Ron ★ see Moonin, A. S., 97c:76002
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 Plurmov, U. G. Mathematical modeling of nonequilibrium processes in nozzles and jets. (Russian. English and Russian summaries) 97b:76001

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- Spatio-temporal Patterns in Nonequilibrium Complex Systems ★ Spatio-temporal patterns in nonequilibrium complex systems. 97i:76002
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- (Athuri, Satya N.) ★ see Reissner, Eric, 97b:01030
 (Baranov, V. B.) ★ see Zaitsev, A. A., 97c:76042
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 Bridges, Thomas J. Recent developments on wave instability. 97m:76050
 Chemin, Jean-Yves Fluides parfaits incompressibles. (French summary) [Incompressible perfect fluids] 97d:76007
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 (Simmonds, James G.) ★ see Reissner, Eric, 97b:01030
 Tao, L. ★ see Rajagopal, K. R., 97a:73001
 (Wan, Frederic Y. M.) ★ see Reissner, Eric, 97b:01030
 (Wheeler, Mary Fanett) ★ see Environmental studies, 97f:00012
 Yarin, Alexander L. ★ Free liquid jets and films: hydrodynamics and rheology. (English summary) 97c:76007
 Zaitsev, A. A. ★ Теория несущей поверхности. (Russian. Russian summary) [Theory of a lifting surface] 97c:76042
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76-03 Historical (must also be assigned at least one classification number from Section 01)

- Lighthill, Michael James Fluid mechanics. (see 97a:00023)

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- (Athuri, Satya N.) ★ see Reissner, Eric, 97b:01030
 (Brown, Laurie M.) ★ see Twentieth century physics, 97a:00023
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 (Levi-Civita, T.) ★ see Ricca, Renzo L., 97c:01014
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 (Lorentz, H. A.) ★ see Kuiken, H. K., 97d:01018
 Mandel, Jean ★ Cours de mécanique des milieux continus. (French) [Course on continuum mechanics] 97m:01107
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 Poincaré, Henri ★ (Œuvres. Tome VII. (French) [Works. Vol. VII] 97c:01054
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76-05 Experimental papers

- Bubnov, B. M. Turbulization of tornado-like vortices. (Russian)
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 Fröh, W.-G. (with Read, P. L.) Wave interactions and the transition to chaos of baroclinic waves in a thermally driven rotating annulus. (English summary) 97m:76002
 Libchaber, Albert ★ see Zhang, Jun¹; et al.
 Nickels, T. B. (with Perry, A. E.) An experimental and theoretical study of the turbulent coflowing jet. (English summary) 97a:76001
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76-06 Proceedings, conferences, collections, etc.

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- (Dritschel, David G.) *see* Mathematics of deforming surfaces, 97f:76004 and Vortex flows and related numerical methods, 97f:76003
- (El Naschie, M. S.) *see* Chaos applied to fluid mixing, 97a:76003
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- Advances in multi-fluid flows** ★ Advances in multi-fluid flows, 97e:76003
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- (Bandle, C.) *see* Calculus of variations, applications and computations, 97f:00016
- (Bemelmans, Josef) *see* Calculus of variations, applications and computations, 97f:00016
- (Bebbia, C. A.) *see* Boundary elements, 97f:65005
- (Carroll, Michael M.) *see* Nonlinear effects in fluids and solids, 97c:73002
- (Chipot, Michel) *see* Calculus of variations, applications and computations, 97f:00016
- (Clarini, P.) *see* Advanced mathematical tools in metrology, 97f:65004
- (Cox, M. G.) *see* Advanced mathematical tools in metrology, 97f:65004
- (Diaz Diaz, Jesús Ildefonso) *see* Energy methods in continuum mechanics, 97h:00011
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- (Galdi, Giovanni P.) *see* Progress in theoretical and computational fluid mechanics, 97d:00028; Stability and wave propagation in fluids and solids, 97d:73001 and Mathematical theory in fluid mechanics, 97f:35003
- (Glimm, James) *see* Hyperbolic problems: theory, numerics, applications, 97k:00016
- (Graham, M. J.) *see* Hyperbolic problems: theory, numerics, applications, 97k:00016
- (Grove, J. W.) *see* Hyperbolic problems: theory, numerics, applications, 97k:00016
- (Haile, N.) *see* Boundary elements, 97f:65005
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- Advanced mathematical tools in metrology** ★ Advanced mathematical tools in metrology. 97i:65004
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76A02 Foundations of fluid mechanics

- Ruggeri, Tommaso** Recent results on wave propagation in continuum models. (see 97d:73001)
Wang, Shi Jun A kinetic molecular theory foundation for Ladyzhenskaya's incompressible viscous flow model. (Chinese. English and Chinese summaries) 97c:76004
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76A05 Non-Newtonian fluids

- Abdel Wahab, M.** *see* Abu-El-Hassan, A.; et al., 97b:76004
Abu-El-Hassan, A. (with Abdel Wahab, M.; El-Bakry, M. Y.; Zidan, M.) Flow of a fluid of grade two between two eccentric rotating spheres. (English summary) 97b:76004
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 — (with Wills, Sheryl L.) Perturbation of the domain and regularity of the solutions of the bipolar fluid flow equations in polygonal domains. (English summary) 97f:76003
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 — (with Hao, Wenge) Inertial manifolds of incompressible, nonlinear bipolar viscous fluids. (English summary) 97f:76009
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- Bloom, Frederick Attractors of bipolar and non-Newtonian viscous fluids. (English summary) 97f:35142
- Boldrini, José Luiz (with Rojas-Medar, Marko A.) On the convergence rate of spectral approximation for the equations for nonhomogeneous asymmetric fluids. (English and French summaries) 97f:76044
- Bourgeat, Alain (with Mikelić, Andro) Homogenization of a polymer flow through a porous medium. 97b:76099
- Brillard, Alain Asymptotic behaviour of a viscoplastic Bingham fluid in porous media with periodic structure. (English and French summaries) 97f:76056
- Bruty, M. A. Unidirectional flows of a nonlinearly viscous fluid in pipes. (Russian. Russian summary) 97e:76025
- Coscia, Vincenzo (with Videman, Juha H.) On a class of abstract evolution equations related to the motion of complexity 2 fluids. 97f:35128
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- Fazio, Riccardo A novel approach to the numerical solution of boundary value problems on infinite intervals. (English summary) 97e:65069
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- Galdi, Giovanni P. (with Grobelaar-Van Dalsen, Marië; Sauer, Niko) Existence and uniqueness of solutions of the equations of motion for a fluid of second grade with non-homogeneous boundary conditions. (English summary) 97a:35186
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- Khayat, Roger E. Finite-dimensional description of non-Newtonian vortex flows. (English summary) 97m:76066
- Kuerten, J. G. M. see Toose, E. M.; et al., 97e:76049
- Le Roux, Christiaan (with Sauer, Niko) Stability theory for flows governed by implicit evolution equations. 97a:76039
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- Matusů-Nečasová, Šárka Measure valued solution of non-Newtonian compressible heat conductive fluid. (English summary) (see 97a:00029)
- Mikelić, Andro see Bourgeat, Alain, 97b:76099
- Olsen, Elwood T. see Bernstein, Barry; et al., 97f:76030
- Panja, S. (with Sengupta, P. R.; Debnath, Lokenath) Hydromagnetic flow of Reiner-Rivlin fluid between two coaxial circular cylinders with porous walls. (English summary) 97c:76059
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- Liu, Ci Qun (with Huang, Jun Qi) Flow of viscoelastic fluids in annular pipes. (Chinese. English and Chinese summaries) 97g:76004
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- Orlov, V. P. On the stability of the zero solution of a mathematical model of a viscoelastic fluid. (Russian) 97h:76006
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- Sobolevskii, P. E. Asymptotics of stable viscoelastic fluid motion (Oldroyd's mathematical model). (English summary) 97h:76007
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- Asatur, K. G. Solution of equations of an axisymmetric free jet using the plane problem. (Russian. Russian summary) 97k:76008
- Asavanant, J. (with Vanden-Broeck, J.-M.) Nonlinear free-surface flows emerging from vessels and flows under a sluice gate. (English summary) 97c:76008

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- Gao, Yi-Tian (with Tian, Bo) Generalized tanh method with symbolic computation and generalized shallow water wave equation. (English summary) **97k:35001**
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- Vázquez, L. V. see Konotop, Vladimir V., **97j:35168**

- Wang, Xinlong (with Wei, Rong-jue) Interactions and motions of double-solitons with opposite polarity in a parametrically driven system. (English summary) **97k:35247**
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- McLaughlin, David W. see Majda, Andrew J.; et al., **97m:76071**
- Pereira, Jaridel Morais Stability of multidimensional traveling waves for a Benjamin-Bona-Mahony type equation. (English summary) **97d:35178**
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- Bourquin, F. Component mode synthesis and numerical integration of the added mass. **97h:73067**

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- Andersson, C. D. (with Vanden-Broeck, J.-M.) Bow flows with surface tension. (English summary) **97g:76016**
- Duffy, B. R. see Wilson, S. K., **97e:76018**
- Finn, Robert (with Marek, J.) The modified canonical proboscis. (English summary) **97e:76016**
- Jurak, Mladen Homogenization of capillarity oscillations of an inviscid fluid in a porous reservoir. (Italian summary) **97b:76021**
- Kuznetsov, A. O. see Logvinov, B. V., **97d:76006**
- Logvinov, B. V. (with Kuznetsov, A. O.) Capillary-gravity waves over a flat surface. **97d:76006**
- Lukovskii, I. A. (with Mikhailyuk, O. V.; Timokha, A. N.) On a variational criterion for the stability of pseudo-equilibrium forms. (Ukrainian. English and Ukrainian summaries) **97j:76007**
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- Okamoto, Hisashi (with Shōji, Mayumi) The resonance of modes in the problem of two-dimensional capillary-gravity waves. (English summary) **97f:76016**
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- Rhodes-Robinson, P. F. The effect of surface tension on the scattering of waves by a partially immersed vertical barrier in water of infinite depth. (English summary) **97f:76017**
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- Bourquain, F. Component mode synthesis and numerical integration of the added mass. 97h:73067
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- Coron, Jean-Michel Stabilization of controllable systems. 97h:93068
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- Lancia, M. R. *see* Bassanini, Piero; et al., (97k:73003)

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- Li, Yujian (with Xiao, Ling) Construction and qualitative behavior of solutions for a model equation for fluid flow in a pipe. (English summary) 97f:35170
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76Cxx Incompressible inviscid fluids, vorticity flows

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- Baker, Gregory R. (with Li, Xiao; Morlet, Anne C.) Analytic structure of two 1D-transport equations with nonlocal fluxes. (English summary) 97a:76019
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- De Gregorio, Salvatore A partial differential equation arising in a 1D model for the 3D vorticity equation. (English summary) 97f:76031
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- Dovzhenko, V. A. *see* Danilov, S. D.; et al. 97m:76017
- Elcrat, Alan R. (with Hu, Chenglie; Miller, Kenneth G.) Equilibrium configurations of point vortices in doubly connected domains. (English summary) 97m:76018
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- Horsman, Nicola J. (with Bassom, Andrew P.; Blennerhassett, P. J.) Strongly nonlinear vortices in the Stokes layer on an oscillating cylinder. (English summary) 97c:76021
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- Jackson, T. L. *see* Criminale, W. O.; et al. 97k:76024
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- Keller, Jakob J. A pair of stream functions for three-dimensional vortex flows. (English summary) 97g:76018
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76Zxx Biological fluid mechanics [see also 92Cxx]

76Z05 Physiological flows [see also 92C35]

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- Henry, F. S.** see **Iudicello, F.; et al.**, **(97g:76001)**
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- Waters, S. L.** see **Lynch, D. G.; et al.**, **97b:76131**

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- Mandal, P. K.** see **Chakravarty, Santabrata**, **97g:92006**

76Z10 Biopropulsion in water and in air

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- Lighthill, Michael James** Reinterpreting the basic theorem of flagellar hydrodynamics. (English summary) **97c:76078**
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76Z99 None of the above, but in this section

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Sarıoğlu, M. Tacettin (*with* Demiray, Hilmi) An electromechanical model for wet bones.
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78-XX Optics, electromagnetic theory {For quantum optics, see 81V80.}

78-01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 78-01

Tai, Chen-To ★ Dyadic Green functions in electromagnetic theory. (English summary) 97k:78015

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78-02 Research exposition (monographs, survey articles)

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Krivoshlykov, S. G. ★ Quantum-theoretical formalism for inhomogeneous graded-index waveguides. (English summary) 97d:78005

(Palfy-Muhoray, P.) see Spatio-temporal patterns in nonequilibrium complex systems, 97i:76002

Silbergleit, A. S. (with Kopilevich, Yu. I.) ★ Spectral theory of guided waves. (English summary) 97k:78026

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Santa Fe, NM ★ Spatio-temporal patterns in nonequilibrium complex systems. 97i:76002

Spatio-temporal patterns in nonequilibrium complex systems ★ Spatio-temporal patterns in nonequilibrium complex systems. 97i:76002

78-03 Historical (must also be assigned at least one classification number from Section 01)

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Clarke, Bruce Allegories of Victorian thermodynamics. 97m:01038

(Danilov, Yu. A.) see Hamilton, William Rowan, 97a:01073

Einstein, Albert ★ Sur l'électrodynamique des corps en mouvement. (French) [On the electrodynamics of moving bodies] 97a:01072

Gray, Jeremy J. Poincaré and electromagnetic theory. (French summary) 97a:01033

Hamilton, William Rowan ★ Избранные труды. (Russian. Russian summary) [Selected works] 97a:01073

Harman, Peter M. Through the looking-glass, and what Maxwell found there. 97f:01017

(Heaviside, Oliver) see Yavetz, Ido, 97j:01045

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(Hudde, Johannes) see Vermij, Rienk, 97f:01012

Ionescu-Pallas, Nicholas see Sofonea, Liviu, (97m:01004)

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Knudsen, Ole Electromagnetic energy and the early history of the energy principle. 97h:01013

(Polak, L. S.) see Hamilton, William Rowan, 97a:01073

Psillos, Stathis Poincaré's conception of mechanical explanation. (French summary) 97a:01035

Robotti, Nadia see Carazza, Bruno, 97j:01029

Sofonea, Liviu (with Ionescu-Pallas, Nicholas) The origins of the conceiving and mathematical formalization of the idea/principle of invariance in the research of electromagnetic phenomena. (see 97m:01004)

Vermij, Rienk (with Atzema, Eisso) Specilla circularia: an unknown work by Johannes Hudde. (German summary) 97f:01012

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78-04 Explicit machine computation and programs (not the theory of computation or programming)

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Gil'man, M. A. (with Mikheev, A. G.; Tkachenko, T. L.) A two-scale model and other methods for the approximate solution of the problem of diffraction by an uneven surface. (Russian. Russian summary) 97j:78023

Mikheev, A. G. see Gil'man, M. A.; et al., 97j:78023

Tkachenko, T. L. see Gil'man, M. A.; et al., 97j:78023

78-06 Proceedings, conferences, collections, etc.

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Symposium:

Large-scale Structures in Acoustics and Electromagnetics ★ Large-scale structures in acoustics and electromagnetics. 97a:00030

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- Bera, Rasajit Kumar Study of Green's tensor in magnetoviscoelastic media. (English summary)
- Brovenko, A. V. (with Melezhih, P. N.; Poedinchuk, A. E.; Shestopalov, V. P.) Regularization of spectral problems in the theory of open resonators with gyrotropic dielectric inclusions. (Russian. English summary) **97f:78036**
- Cherkaeva, Elena (with Tripp, Alan C.) Inverse conductivity problem for inaccurate measurements. (English summary) **97j:78027**

- Cumberbatch, Ellis (with Fang, Weifu) Explicit solutions for LBIC signals in semiconductor by asymptotic method. (English summary) **97b:78022**
- Degond, Pierre (with Jaffard, Stéphane; Poupaud, F.; Raviart, Pierre-Arnaud) The Child-Langmuir asymptotics of the Vlasov-Poisson equation for cylindrically or spherically symmetric diodes. I. Statement of the problem and basic estimates. (English summary) **97b:78024**
- (with Jaffard, Stéphane; Poupaud, F.; Raviart, Pierre-Arnaud) The Child-Langmuir asymptotics of the Vlasov-Poisson equation for cylindrically or spherically symmetric diodes. II. Analysis of the reduced problem and determination of the Child-Langmuir current. (English summary) **97b:78025**
- Derun, E. N. (with Kolyshkin, A. A.; Vaillancourt, Rémi) Enhanced eddy current mathematical models using the phase-shifted fields of two coils. (English and French summaries) **97b:78023**
- Fang, Weifu (with Ito, Kazufumi) Energy estimates for a one-dimensional hydrodynamic model of semiconductors. (English summary)
- *see also* Cumberbatch, Ellis, **97b:78022**
- Garcia Reimbert, C. (with Minzoni, A. A.; Smyth, N. F.) Effect of radiation losses on hotspot formation and propagation in microwave heating. (English summary) **97b:78018**
- Il'khv, V. S. Algebraic and asymptotic formulas that relate superresolution methods. (English summary) **97k:78028**
- Ito, Kazufumi *see* Fang, Weifu
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- Kaipio, J. P. *see* Vauhkonen, M.; et al.
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- Melezhih, P. N. *see* Brovenko, A. V.; et al., **97f:78036**
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- Nouri, Anne (with Schmeiser, Christian) Streamers in gas discharge devices. (English and German summaries) **97f:78037**
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- Poupaud, F. *see* Degond, Pierre; et al., **97b:78024** and **97b:78025**
- Radhakrishnan, Rengaraj (with Lakshmanan, M.) Exact soliton solutions to coupled nonlinear Schrödinger equations with higher-order effects. (English summary) **97b:78025**
- Rappaz, Jacques (with Świerkosz, Marek) Modelling in numerical simulation of electromagnetic heating. (English summary) **97f:78015**
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- Vanzha, A. V. (with Mal'tsev, Arkadii Anatolievich; Silaev, A. M.) Optimal estimation of the time instant of occurrence of an impulse disturbance in a random signal in discrete time. (English summary) **97f:78028**
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- Wang, Canyun Green's functions and general formalism for 2D piezoelectricity. (English summary)

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- Gajewski, H. (with Gärtner, K.) On the discretization of van Roosbroeck's equations with magnetic field. (English and German summaries) **97g:65191**
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- Gatti, Emilio (with Gotusso, Laura; Sacco, Riccardo) An energy interpretation of a stationary functional for the variational solution of the nonlinear Poisson equation in semiconductors at thermal equilibrium. (Italian summary) **97k:35259**
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- Jordan, Arthur K. *see* Tamil, Lakshman S., **97d:78001**
- Kholodnyi, Valery A. Reduction of an infinite system of integrodifferential equations for electric currents on a lattice of closed curves to a finite system of independent pseudodifferential equations on a circle. (English summary) **97c:35193**
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- Li, Da Qian (with Tan, Yongji) Mathematical problems and methods in resistivity well-loggings. (English summary) **97c:86006**
- Lyalinov, M. A. Boundary-contact problems of the electromagnetic theory of diffraction. (English summary) **97f:78024**
- Patch, S. K. Diffraction tomography modulo Grassmann and Laplace. (English summary) **97k:92008**
- Prigozhin, Leonid The Bean model in superconductivity: variational formulation and numerical solution. (English summary) **97k:78005**

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 Romano, Vittorio Asymptotic waves for the hydrodynamical model of semiconductors. (English summary) 97h:78003
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78A60 Lasers, masers, optical bistability, nonlinear optics [see also 81V80]

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- Bahrapour, A. R. (with Radjabipour, M.) On optimal nozzle shapes of gas-dynamic lasers. (English summary)
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- Joly, Jean-Luc (with Métivier, Guy; Rauch, Jeffrey B.) Several recent results in nonlinear geometric optics. 97c:35020
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 Wang, Lei (with Bosley, D. L.; Kevorkian, J.) An asymptotic analysis of the 1:3:4 Hamiltonian normal form. (English summary) 97i:70028
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78A70 Biological applications [see also 92C30, 92J30]

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- He, Sailing *see* Ying, Jinpin; et al., 97k:78007
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78A97 Mathematically heuristic optics and electromagnetic theory (must also be assigned at least one other classification number in this section)

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- Touzaï, Rachid Analysis of an eddy current problem involving a thin inductor. (English summary) 97i:78007

78A99 Miscellaneous topics

- Bugaenko, G. A. (with Wegner, Walter) The electromagnetic field as the sole physical reality. (Russian)
 Chubykalo, Andrew E. (with Evans, Myron Wyn; Smirnov-Rueda, Roman) The phase-free, longitudinal magnetic component of vacuum electromagnetism.
 Evans, Myron Wyn *see* Chubykalo, Andrew E.; et al.
 Mityushev, V. V. (with Zhorovina, T. N.) Exact solution of the problem of current formation in a doubly periodic heterogeneous system. (Russian) (see 97g:00017)
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 Postolache, Mihai Order and chaos for a magnetic dynamical system. (Romanian summary) (see 97c:35002)
 Priimenko, V. I. *see* Lorenzi, A., 97k:35270

80-XX Classical thermodynamics, heat transfer {For thermodynamics of solids, see 73B30.}

80-01 Instructional exposition (textbooks, tutorial papers, etc.)

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Jou, D. (with Casas-Vázquez, J.; Lebon, G.) ★ Extended irreversible thermodynamics. (English summary) 97i:80001

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Bowley, Roger (with Sánchez, Mariana) ★ Introductory statistical mechanics. (English summary) 97j:82001

Sánchez, Mariana *see* Bowley, Roger, 97j:82001

80-02 Research exposition (monographs, survey articles)

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(Cladis, P. E.) *see* Spatio-temporal patterns in nonequilibrium complex systems, 97i:76002

Edwards, Brian J. *see* Beris, Antony N., 97c:76001

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Santa Fe, NM ★ Spatio-temporal patterns in nonequilibrium complex systems. 97i:76002

Spatio-temporal patterns in nonequilibrium complex systems ★ Spatio-temporal patterns in nonequilibrium complex systems. 97i:76002

80-03 Historical (must also be assigned at least one classification number from Section 01)

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Drago, Antonino Mach's thesis: thermodynamics as the basic theory for physics teaching. (English summary) 97f:01015

Fargue, D. *see* Lochak, Georges; et al.

Howarth, Richard J. Sources for a history of the ternary diagram. 97k:01001

Karatchentzeff, Michel *see* Lochak, Georges; et al.

Lochak, Georges (with Karatchentzeff, Michel; Fargue, D.) Introduction to Louis de Broglie's *Diverses questions de mécanique et de thermodynamique classiques et relativistes* [Springer, Berlin, 1995]. (French)

Meheus, Joke Adaptive logic in scientific discovery: the case of Clausius. 97i:01019

Poincaré, Henri ★ Thermodynamique. (French) [Thermodynamics] 97d:01040

(Thomson, William, Lord Kelvin) *see* Dias, Penha Maria Cardoso, 97d:01016

80-06 Proceedings, conferences, collections, etc.

(Millonas, Mark) *see* Fluctuations and order, 97g:80001

(Tarzia, Domingo Alberto) *see* Seminar: Free Boundary Value Problems and their Applications, 97m:80001 and 97m:80002

(Wake, Graeme C.) *see* Nonlinear dynamics of combustion, 97f:80001

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Nonlinear dynamics of combustion ★ Nonlinear dynamics of combustion. 97f:80001

Rosario ★ V Seminario sobre Problemas de Frontera Libre y sus Aplicaciones. Vol. 1.

(Spanish) [Fifth Seminar on Free Boundary Value Problems and their Applications. Vol. 1] 97m:80001

— ★ V Seminario sobre Problemas de Frontera Libre y sus Aplicaciones. Vol. 2. (Spanish) [Fifth Seminar on Free Boundary Value Problems and their Applications. Vol. 2] 97m:80002

Seminar:

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— ★ V Seminario sobre Problemas de Frontera Libre y sus Aplicaciones. Vol. 2. (Spanish) [Fifth Seminar on Free Boundary Value Problems and their Applications. Vol. 2] 97m:80002

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(Allabadi, M. H.) *see* Boundary elements, 97i:65005

(Brebba, C. A.) *see* Boundary elements, 97i:65005

(Ciari, P.) *see* Advanced mathematical tools in metrology, 97i:65004

(Coward, Adrian V.) *see* Advances in multi-fluid flows, 97c:76003

(Cox, M. G.) *see* Advanced mathematical tools in metrology, 97i:65004

(Hale, N.) *see* Boundary elements, 97i:65005

(Martins, J. B.) *see* Boundary elements, 97i:65005

(Monaco, Roberto) *see* Advanced mathematical tools in metrology, 97i:65004

(Papageorgiou, Demetrios T.) *see* Advances in multi-fluid flows, 97c:76003

(Pavese, F.) *see* Advanced mathematical tools in metrology, 97i:65004

(Renardy, Yuriko Yamamoto) *see* Advances in multi-fluid flows, 97c:76003

(Shiner, J. S.) *see* Entropy and entropy generation, 97d:80002

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Analysis of Multi-fluid Flows and Interfacial Instabilities ★ Advances in multi-fluid flows. 97c:76003

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Advanced Mathematical Tools in Metrology ★ Advanced mathematical tools in metrology. 97i:65004

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80-08 Computational methods

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Bounds, S. (with Davey, Keith; Hinduja, S.) A modified effective capacitance method for solidification modelling using linear tetrahedral finite elements. (English summary) 97d:80001

— *see also* Davey, Keith, 97a:80001

Davey, Keith (with Bounds, S.) Source-weighted domain integral approximation for linear transient heat conduction. (English summary) 97a:80001

— *see also* Bounds, S.; et al., 97d:80001

Fadeev, S. I. Minimization of the free Gibbs energy by the method of the continuation of the solution with respect to a parameter. (Russian. Russian summary) 97c:80001

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Pope, S. B. Computationally efficient implementation of combustion chemistry using in situ adaptive tabulation. (English summary) 97m:80003

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Rappaz, Jacques (with Świerkosz, Marek) Mathematical modelling and numerical simulation of induction heating processes. (English summary) *see* 97a:49004

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- Ge, Mo Lin *see* Chen, Guang-Hong; et al., 97g:81026a and 97g:81026b
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82-XX Statistical mechanics, structure of matter

82-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

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82-01 Instructional exposition (textbooks, tutorial papers, etc.)

- Benfatto, Giuseppe (with Gallavotti, Giovanni) ★ Renormalization group. (English summary) 97b:82001
- Bowley, Roger (with Sánchez, Mariana) ★ Introductory statistical mechanics. (English summary) 97b:82001
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- Stroganov, Yu. G. *see* Mangazeev, V. V.; et al., 97b:82050
- (Zadkov, V. N.) *see* Binder, K., 97b:82001

82-02 Research exposition (monographs, survey articles)

- (Kapral, Raymond) *see* Pattern formation and lattice gas automata, 97b:82002
- (Lawnczak, Anna T.) *see* Pattern formation and lattice gas automata, 97b:82002

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- Au-Yang, Helen (with Perk, Jacques H. H.) The many faces of the chiral Potts model. (English summary) 97b:82011
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- Binder, K. (with Heermann, Dieter W.) ★ Моделирование методом Монте-Карло в статистической физике. (Russian. Russian summary) [Monte Carlo simulation in statistical physics] 97h:82001
- Heermann, Dieter W. see Binder, K., 97h:82001
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82-06 Proceedings, conferences, collections, etc.

- (Baeriswyl, Dionys) see Hubbard model, 97b:82003
- (Bellissard, J.) see Quantum problems in condensed matter physics, 97k:82002
- (Campbell, David K.) see Hubbard model, 97b:82003
- (Carey, Alan L.) see Confronting the infinite, 97i:82001
- (Carmelo, Jose M. P.) see Hubbard model, 97b:82003
- (Ellis, William J.) see Confronting the infinite, 97i:82001
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- (Guinea, Francisco) see Hubbard model, 97b:82003
- (Hurst, C. A.) see Confronting the infinite, 97i:82001
- (Jędrzejewski, Janusz) see Nature of crystalline states, 97h:82003
- Kadanoff, Leo P. ★ From order to chaos. 97h:82002
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- (Louis, Enrique) see Hubbard model, 97b:82003
- (Mussardo, G.) see Recent developments in statistical mechanics and quantum field theory, 97c:82001
- (Pearce, Paul A.) see Confronting the infinite, 97i:82001
- (Randjbar-Daemi, S.) see Recent developments in statistical mechanics and quantum field theory, 97c:82001
- (Saleur, Hubert) see Recent developments in statistical mechanics and quantum field theory, 97c:82001
- (Stauffer, Dietrich) see Annual reviews of computational physics, 97m:82001
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- (Tóth, Bálint) see Disordered systems and statistical physics: rigorous results, 97i:82002
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- Hubbard model ★ The Hubbard model. 97b:82003
- Kudowa-Zdrój ★ The nature of crystalline states. 97h:82003
- NATO Advanced Research Workshop:
- Physics and Mathematical Physics of the Hubbard Model ★ The Hubbard model. 97b:82003
- Nature of crystalline states ★ The nature of crystalline states. 97h:82003

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- Conference on Exactly Soluble Models in Statistical Mechanics: Historical Perspectives and Current Status ★ Proceedings of the Conference on Exactly Soluble Models in Statistical Mechanics: Historical Perspectives and Current Status. 97f:82003
- Quantum problems in condensed matter physics ★ Quantum problems in condensed matter physics. 97f:82002

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- (Axel, Françoise) *see* Beyond quasicrystals, 97f:00004
- (Bouwknegt, Peter) *see* Recent progress in statistical mechanics and quantum field theory, 97f:81005
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- (Dorning, John J.) *see* Proceedings: Workshop on Nonlinear Kinetic Theories and Mathematical Aspects of Hyperbolic Systems, 97f:00052
- Dyson, Freeman ★ Selected papers of Freeman Dyson with commentary. 97f:01031
- (Fendley, Paul) *see* Recent progress in statistical mechanics and quantum field theory, 97f:81005
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- (Greenberg, William) *see* Proceedings: Conference on Transport Theory, 97f:82012
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- (Hepp, Klaus) *see* Papers honouring the 60th birthday of Klaus Hepp and of Walter Hunziker, 97f:81007 and 97f:81005
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- (Jamiołkowski, Andrzej) *see* Proceedings: Symposium on Mathematical Physics, 97f:81006
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82B41 Random walks, random surfaces, lattice animals, etc.

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- Richter, Susanne** (with Werner, R. F.) Ergodicity of quantum cellular automata. (English summary) **97b:82069**
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- Takebe, Takashi** Corrigendum: "Bethé ansatz for higher spin eight-vertex models". **97c:82023b**
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- Wang, Jian-Sheng** see Gan, Chee Kwan, **97b:82065**
- Werner, R. F.** see Richter, Susanne, **97b:82069**
- Zegarliński, Bogusław** see Majewski, Adam W., **97i:82055** and **97j:82099**
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82C21 Dynamic continuum models (systems of particles, etc.)

- Bessonov, N. M.** (with Vakulenko, S. A.) Connected kink states in nonhomogeneous nonlinear media. (Russian. English and Russian summaries) **97i:82061**
- Boldrighini, C.** (with Solov'evichik, M. R.) Drift and diffusion for a mechanical system. (English summary) **97d:82058**
- Collet, J. F.** (with Poupaud, F.) Existence of solutions to coagulation-fragmentation systems with diffusion. (English summary) **97i:82062**
- Dubovskii, Pavel** (with Stewart, I. W.) Existence, uniqueness and mass conservation for the coagulation-fragmentation equation. (English summary) **97i:82063**
- Jakšić, V.** (with Pillet, C.-A.) On a model for quantum friction. II. Fermi's golden rule and dynamics at positive temperature. (English summary) **97b:82074**
- Moroz, Alexander** Upper and lower bounds on the partition function of the Hofstadter model. (English summary) **97j:82113**
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- Aebi, Robert** Propagation of chaos in entropy. (English summary) **97k:82032**
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82C22 Interacting particle systems [see also 60K35]

- Aebi, Robert** A solution to Schrödinger's problem of non-linear integral equations. (English summary) **97a:82066**
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- Boldrighini, C.** Macroscopic limits of microscopic systems. (English and Italian summaries) **97j:82114**
- Calogero, F.** Two comments on: "Exact solution of an N -body problem in one dimension" [J. Phys. A **29** (1996), no. 3, L45–L48; MR **97h:82052a**] by A. Khare. (English summary) **97h:82052b**
- Cugliandolo, L. F.** (with Kurchan, Jorge; Monasson, Rémi; Parisi, Giorgio) A mean-field hard-spheres model of glass. (English summary) **97c:82033**
- Da Costa, F. P.** On the dynamic scaling behaviour of solutions to the discrete Smoluchowski equations. (English summary) **97k:82033**
- Duplantier, Bertrand** see Halsey, Thomas C.; et al., **97i:82064**
- Eyink, Gregory L.** (with Lebowitz, Joel L.; Spohn, Herbert) Hydrodynamics and fluctuations outside of local equilibrium: driven diffusive systems. (English summary) **97j:82115**
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- Trimper, S.** see Schulz, Michael, **97i:82065**
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- Nardi, F. R.** (with Olivieri, Enzo) Low temperature stochastic dynamics for an Ising model with alternating field. (English summary) **97k:82030**
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- Pulvirenti, A.** (with Wennberg, B.) Lower bounds for the solutions to the Kac and the Boltzmann equation. (English summary) **97j:82134**
- Rüdiger, B.** see **Fritz, J.**, **(97a:60142)**
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- Schinazi, Rinaldo B.** A contact process with a single inhomogeneous site. (English summary) **97j:60190**
- Seppäläinen, Timo** A microscopic model for the Burgers equation and longest increasing subsequences. (English summary) **97d:60162**
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- Souganidis, Panagiotis E.** Interface dynamics in phase transitions. **97j:35074**
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- Varadhan, Srinivasa R. S.** see **Landim, Claudio**; et al. **(97j:60186)**
- Vázquez, Juan Luis** see **Carrillo, José A.**; et al. **(97g:35166)**
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- "On the hydrodynamic limit for quantum kinetic equations" Erratum: "On the hydrodynamic limit for quantum kinetic equations" [C. R. Acad. Sci. Paris Sér. I Math. **323** (1996), no. 1, 101–106; MR **97k:82028a**] by L. Arloti and M. Lachoviz. (French) **97k:82028b**

82C23 Exactly solvable dynamic models [see also 58F07]

- Daniel, Muthiah** (with Porsežian, K.; Lakshmanan, M.) Erratum: "On the integrability of the inhomogeneous spherically symmetric Heisenberg ferromagnet in arbitrary dimensions" [J. Math. Phys. **35** (1994), no. 12, 6498–6510; MR **95h:82022**].
- Lakshmanan, M.** see **Daniel, Muthiah**; et al.
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- Barma, Mustansir** see **Schütz, Gunter M.**; et al. **(97a:82060)**
- Cadilhe, António M. R.** (with Privman, Vladimir) Exact solution of an irreversible one-dimensional model with fully biased spin exchanges. (English summary) **97j:82104**
- Desposito, M. A.** Diffusive behaviour of solitons described by time-convolutionless generalized master equations. (English summary) **97h:82045**
- Papayan, Vi. V.** (with Shcherbakov, R. R.) Distribution of heights in the abelian sandpile model on the Husimi lattice. (English summary) **97d:82028**
- Percus, J. K.** (with Samaj, L.) Adiabatic propagation of distributions: exactly solvable models. (English summary) **97j:82090**
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- Shcherbakov, R. R.** see **Papayan, Vi. V.**, **(97d:82028)**

82C24 Interface problems

- Barkema, G. T.** see **Subramanian, Balakrishna**; et al.
- Ben-Naim, E.** see **Krapivskii, P. L.**, **(97b:82075)**
- Bussemaker, H. J.** see **Ernst, M. H.**, **(97b:82002)**
- Dobrushin, Roland L'vovich** see **Hryniv, O.**, **(97a:82067)**
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- Hastings, Matthew B.** Renormalization theory of stochastic growth. (English summary) **97j:82117**
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- Lebowitz, Joel L.** see **Subramanian, Balakrishna**; et al.
- Lubensky, T. C.** see **Park, Jeong-Man**, **(97b:82076 and 97b:82077)**
- Park, Jeong-Man** (with Lubensky, T. C.) Topological defects on fluctuating surfaces: general properties and the Kosterlitz-Thouless transition. (English summary) **97b:82076**
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- Speer, E. R.** see **Subramanian, Balakrishna**; et al.

- Subramanian, Balakrishna** (with Barkema, G. T.; Lebowitz, Joel L.; Speer, E. R.) Numerical study of a non-equilibrium interface model. (English summary)
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- Harary, Frank** (with Randolph, William; Mezey, Paul G.) A study of maximum unit-circle caterpillars—tools for the study of the shape of adsorption patterns. (English summary) **97k:92038**
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- Kenmochi, Nobuyuki** see **Ito, Akio**, **(97g:80011)**
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- Nonnenmacher, Theo F.** see **West, Bruce J.**; et al. **(97j:82147)**
- Olivieri, Enzo** see **Cirillo, Emilio N. M.**, **(97e:82033)**
- Presutti, Errico** see **De Masi, Anna**; et al. **(97d:35201)**
- Privman, Vladimir** see **Cadilhe, António M. R.**, **(97j:82104)**
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82C26 Dynamic and nonequilibrium phase transitions (general)

- Rodgers, G. J.** see **Singh, Parvinder**, **(97e:82034)**
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- Callahan, T. K.** (with Knobloch, Edgar) Bifurcations on the fcc lattice. (English summary) **97b:82071**
- De Masi, Anna** Spinodal decomposition and interface dynamics for Glauber evolution with Kac potential. (see **97b:82002**)
- Elliott, Charles M.** (with Garcke, Harald) On the Cahn-Hilliard equation with degenerate mobility. (English summary) **97c:35081**
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- Knobloch, Edgar** see **Callahan, T. K.**, **(97b:82071)**
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- Park, Jeong-Man** (with Lubensky, T. C.) Topological defects on fluctuating surfaces: general properties and the Kosterlitz-Thouless transition. (English summary) **97b:82076**
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82C27 Dynamic critical phenomena

- Items with secondary classifications in 82C27
- Presutti, Errico** Critical fluctuations in a spin system. (English summary) (see **97b:82002**)

82C28 Dynamic renormalization group methods [see also 81T17]

- Boghosian, Bruce M.** (with Taylor, Washington, IV) Renormalization of lattice gas transport coefficients. (English summary) (see **97b:82002**)
- Caginap, G.** Renormalization group calculation of anomalous exponents for nonlinear diffusion. (English summary) **97b:82078**
- Ebert, Ute** Polymer diffusion in quenched disorder: a renormalization group approach. (English summary) **97b:82079**
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- van Enter, Aernout C. D.** On the possible failure of the Gibbs property for measures on lattice systems. (English summary) **97j:82028**
- Evans, Allan K.** Classical and thermodynamic limits in a system of interacting quantum spins. (English summary) **97b:82072**
- Itazu, Yoshihiro** see **Nagano, Yasutaka**, **(97b:76060)**
- Lubensky, T. C.** see **Park, Jeong-Man**, **(97b:82076 and 97b:82077)**
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- Mackey, Michael C. *see* Vlad, Marcel Ovidiu; et al., **97b:82095**
- Matsuba, Ikao Scaling of potential function derived from parameter renormalization of maps. (English summary) **97b:58108**
- Nagano, Yasutaka (with Itazu, Yoshihiro) Renormalization group theory for turbulence: eddy-viscosity type model based on an iterative averaging method. (English summary) **97c:76060**
- Park, Jeong-Man (with Lubensky, T. C.) Topological defects on fluctuating surfaces: general properties and the Kosterlitz-Thouless transition. (English summary) **97b:82076**
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- Procaccia, Itamar *see* L'vov, Victor S., **97b:76078a**; **97b:76078b** and **97b:76078c**
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- Schönfisch, Birgit H. *see* Vlad, Marcel Ovidiu; et al., **97b:82095**
- Vlad, Marcel Ovidiu (with Schönfisch, Birgit H.; Mackey, Michael C.) Fluctuation-dissipation relations and universal behavior for relaxation processes in systems with static disorder and in the theory of mortality. (English summary) **97b:82095**
- Zichichi, A. *see* Petermann, André, **97b:58069**

82C31 Stochastic methods (Fokker-Planck, Langevin, etc.)

[*see also* 60H10]

- Albeverio, Sergio (with Fei, Shao-Ming) A remark on symmetry of stochastic dynamical systems and their conserved quantities. (English summary) **97b:82080**
- Arnold, Anton (with Bonilla, Luis L.; Markowich, Peter A.) Liapunov functionals and large-time-asymptotics of mean-field nonlinear Fokker-Planck equations. (English summary) **97k:82034**
- Barra, Felipe (with Clerc, Marcel; Huepe, Cristián; Tirapegui, Enrique) Detailed balance and reversed process for macroscopic systems. (English summary) (*see* **97c:00045**)
- Beck, Christian From the Perron-Frobenius equation to the Fokker-Planck equation. (English summary) **97a:82069**
- Berdichevskii, V. L. (with Gitterman, M.) One-dimensional diffusion through single- and double-square barriers. (English summary) **97b:82081**
- Bonilla, Luis L. *see* Arnold, Anton; et al., **97k:82034**
- Caceres, Manuel O. About the stochastic multiplicative Swift-Hohenberg equation: the eigenvalue problem. (English summary) **97d:82059**
- Clerc, Marcel *see* Barra, Felipe; et al., (**97c:00045**)
- Cortés, Emilio On the first integral of the Euler-Lagrange equation, boundary conditions and escape rates for stochastic processes. (English summary) **97j:82118**
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- Rolfsen, Dale P. *see* Kholodenko, Arkady L., **97m:57006**
- Sinai, Yakov Grigor'evich (with Spohn, Herbert) Remarks on the delocalization transition for heteropolymers. (English summary) **97j:82160**
- Spohn, Herbert *see* Sinai, Yakov Grigor'evich, **97j:82160**
- Tsurusaki, Kyoichi *see* Deguchi, Tetsuo, **97j:82073**
- Valleriani, A. Random walk with a boundary line as a free massive boson with a defect line. (English summary) **97k:82023**
- Vermet, Franck Transition de phase et vitesse de fuite pour une mesure discrète de Edwards non symétrique sur \mathbb{Z} . (English and French summaries) [Phase transition and escape speed for a nonsymmetric discrete Edwards measure on \mathbb{Z}] **97e:60246**
- Yin, Hong-Ming A free boundary problem arising from a stress-driven diffusion in polymers. (English summary) **97d:35252**

- Zhang, Jianhua *see* Hu, Bei, **97k:35208**
- Zhou, Xian Yin *see* Alberverio, Sergio, **97f:60135**
- Zia, R. K. P. *see* McKane, Alan J., **97d:82039**

82D75 Nuclear reactor theory

- Antonov, D. V. Boundary observation of nonstationary neutron transport in a plane-parallel medium. (English summary) **97k:82055**
- Arándiga, Francesc (with Caselles, Vicent) Multiresolution approach to the approximation of the leading eigenvalues of some neutron transport operators. (English summary) **97j:82169**
- Caselles, Vicent *see* Arándiga, Francesc, **97j:82169**
- Escrivá, A. *see* Verdú Martín, Gumersindo; et al., **(97g:00019)**
- Ginestar-Peiró, Damián *see* Verdú Martín, Gumersindo; et al., **(97g:00019)**
- Kuznetsov, Yuri Alekseevich ★ Математические задачи динамики ядерных реакторов. (Russian. Russian summary) [Mathematical problems in the dynamics of nuclear reactors] **97b:82119**
- Martin, Olga *see* Olariu, V., **97b:82120**
- Muñoz-Cobo González, José Luis *see* Verdú Martín, Gumersindo; et al., **(97g:00019)**
- Olariu, V. (with Martin, Olga) Periodic solutions of the neutron-transport equation. (Romanian. Romanian summary) **97b:82120**
- Pereira, C. *see* Verdú Martín, Gumersindo; et al., **(97g:00019)**
- Rădulescu, Vicențiu D. Sur l'équation multigroupe stationnaire de la diffusion des neutrons. (English and French summaries) [On the stationary multigroup equation of neutron diffusion] **97h:82071**
- Verdú Martín, Gumersindo (with Muñoz-Cobo González, José Luis; Pereira, C.; Escrivá, A.; Ginestar-Peiró, Damián; Vidal, V.) Spatial models of neutron flux. (Spanish) *see* **97g:00019**
- Vidal, V. *see* Verdú Martín, Gumersindo; et al., **(97g:00019)**

Items with secondary classifications in 82D75

- Dahl, Erlend *see* Sahni, D. C.; et al., **97f:82039**
- (Hoppe, Ronald H. W.) *see* Schmid, Werner, **97e:65130**
- Jiang, Weihua *see* Song, Degong; et al., **97f:82040**
- Kuang, Zhi Feng (with Yang, Ming Zhu) On the index of the eigenvalue of a transport operator. (English summary) **97f:82038**
- Kuznetsov, Yuri Alekseevich² Mathematical modeling, nonlinear equations of evolution, and the dynamics of nuclear reactors. (English summary) **97m:34113**
- Nishigori, Takeo *see* Rokhmadī; et al., **97h:82062**
- Rokhmadī (with Nishigori, Takeo; Takeda, Toshikazu) Calculations of spatial higher modes without deflation procedure. (English summary) **97h:82062**
- Sahni, D. C. (with Dahl, Erlend; Sjöstrand, N. G.) Real criticality eigenvalues of the one-speed linear transport operator. (English summary) **97f:82039**
- Schmid, Werner ★ Adaptive gemischte und nichtkonforme Finite-Elemente Methoden und Anwendungen auf die Mehrgruppen-Diffusionsgleichungen. (German. English and German summaries) [Adaptive mixed and nonconforming finite element methods and applications to multigroup diffusion equations] **97e:65130**
- Sjöstrand, N. G. *see* Sahni, D. C.; et al., **97f:82039**
- Song, Degong (with Jiang, Weihua; Wang, Mian Sen; Zhu, Guang Tian) Optimal design of the cross section in a nuclear reactor. (English summary) **97f:82040**
- Takeda, Toshikazu *see* Rokhmadī; et al., **97h:82062**
- Wang, Mian Sen *see* Song, Degong; et al., **97f:82040**
- Yang, Ming Zhu *see* Kuang, Zhi Feng, **97f:82038**
- Zhu, Guang Tian *see* Song, Degong; et al., **97f:82040**

82D99 None of the above, but in this section

- Anile, A. M. (with Muscato, O.) A thermodynamic framework for hydrodynamical models of carrier transport in semiconductors. (English summary) *see* **97c:00052**
- Ben Abdallah, Naoufel (with Degond, Pierre) The Child-Langmuir law for the Boltzmann equation of semiconductors. (English summary) **97h:82121**
- Degond, Pierre *see* Ben Abdallah, Naoufel, **97h:82121**
- Kerkhove, Thomas Nonlinearities in drift-diffusion semiconductor modeling. (English summary) *see* **97a:00029**
- King, John Robert (with Moore, M. G.) Asymptotic analysis of a combined dissociative and kick-out diffusion mechanism. (English summary) **97a:82087**
- Moore, M. G. *see* King, John Robert, **97a:82087**
- Muscato, O. *see* Anile, A. M., **(97c:00052)**
- Ozizmir, Ercument *see* Wollman, Stephen, **97h:82072**
- Shcheprov, A. V. Computation of the distribution function of electrons of a semiconducting plasma in an electric field. (Russian. Russian summary)
- Wollman, Stephen (with Ozizmir, Ercument) Numerical approximation of the one-dimensional Vlasov-Poisson system with periodic boundary conditions. (English summary) **97h:82072**

Items with secondary classifications in 82D99

- Alabau, Fatima A qualitative analysis of the potential and current driven semiconductor equations. (English summary) *see* **97a:00029**
- Andréasson, Håkan Global existence of smooth solutions in three dimensions for the semiconductor Vlasov-Poisson-Boltzmann equation. **97m:35255**
- Beirão da Veiga, Hugo Remarks on the flow of holes and electrons in crystalline semiconductors. **97d:35222**
- On the semiconductor drift diffusion equations. (English summary) **97g:35165**
- Degond, Pierre (with Poupaud, F.; Yamahakki, A.) Particle simulation and asymptotic analysis of kinetic equations for modeling a Schottky diode. (English and French summaries) **97j:82148**
- Gajewski, H. (with Gärtner, K.) On the discretization of van Roosbroeck's equations with magnetic field. (English and German summaries) **97g:65191**
- Gärtner, K. *see* Gajewski, H., **97g:65191**

- Guan, Ping** A note on the uniqueness theorem for steady-state semiconductor equations. (English summary) **97j:35149**
- (with Wang, Yuan Ming¹) On the convergence of Gummel mapping for steady-state semiconductor equations. (English summary) **97j:35150**
- Ishio, H.** Quantum transport and classical dynamics in open billiards. (English summary) **97b:81024**
- Jerome, Joseph W.** (with Shu, Chi-Wang) Energy transport systems for semiconductors: analysis and simulation. (English summary) (see **97a:00029**)
- Marrocco, Americo** (with Montarnal, Philippe) Simulation de modèles "energy transport" à l'aide des éléments finis mixtes. (English and French summaries) [Simulation of energy transport models via mixed finite elements] **97d:78006**
- Martinez-Gamba, Irene** (with Morawetz, Cathleen S.) A viscous approximation for a 2-D steady semiconductor or transonic gas dynamic flow: existence theorem for potential flow. (English summary) **97g:35169**
- Montarnal, Philippe** (with Perthame, Benoît) Asymptotic analysis of the drift-diffusion equations and Hamilton-Jacobi equations. (English summary) **97m:35260**
- see also **Marrocco, Americo**, **97d:78006**
- Morawetz, Cathleen S.** see **Martinez-Gamba, Irene**, **97g:35169**
- Natalini, Roberto** The bipolar hydrodynamic model for semiconductors and the drift-diffusion equations. (English summary) **97a:35237**
- Perthame, Benoît** see **Montarnal, Philippe**, **97m:35260**
- Poupaud, F.** see **Degond, Pierre**; et al., **97j:82148**
- Rodgers, G. J.** see **Singh, Parvinder**, **97e:82034**
- Shu, Chi-Wang** see **Jerome, Joseph W.**, (**97a:00029**)
- Singh, Parvinder** (with Rodgers, G. J.) Coagulation processes with mass loss. (English summary) **97e:82034**
- Wang, Yuan Ming¹** see **Guan, Ping**, **97j:35150**
- Yamnahakki, A.** see **Degond, Pierre**; et al., **97j:82148**
- Yeh, Li-Ming** Well-posedness of the hydrodynamic model for semiconductors. (English summary) **97k:35251**
- Zhang, Bo⁴** Global existence and asymptotic stability to the full 1D hydrodynamic model for semiconductor devices. (English summary) **97a:35240**
- Zvyatkov, Kr. D.** Variational principles and the c^2 -formula for the effective conductivity of a random dispersion. (English summary) (see **97k:73002**)

83-XX Relativity and gravitational theory

83-01 Instructional exposition (textbooks, tutorial papers, etc.)

- Bartnik, Robert General relativity. (English summary) 97a:83001
 Dirac, Paul Adrien Maurice ★ General theory of relativity. (English summary) 97a:83002
 Kichenassamy, S. Relativité générale: un aperçu. (English and French summaries) [General relativity: an overview] 97j:83001
 Schmidt, Bernd Gerhard Mathematics of general relativity. 97g:83001
 Sharma, Chandra Shekhar Mathematical foundations of the general theory of relativity. 97c:83001
 Wheeler, John Archibald ★ At home in the universe. 97h:83001

Items with secondary classifications in 83-01

- (Barrow, John D.) see Madsen, Mark S., 97c:83075
 Lerner, L. A simple derivation of the Schwarzschild solution from the field equations. (English and Russian summaries)
 Madsen, Mark S. ★ The dynamic cosmos. (English summary) 97c:83075
 Neugebauer, Gernot Gravitostatics and rotating bodies. 97j:83025

83-02 Research exposition (monographs, survey articles)

- (Atiyah, Michael Francis) see Hawking, Stephen W., 97a:83003
 Earman, John ★ Bangs, crunches, whimpers, and shrieks. 97b:83001
 Hawking, Stephen W. (with Penrose, Roger) ★ The nature of space and time. (English summary) 97a:83003
 Moss, Ian G. ★ Quantum theory, black holes and inflation. (English summary) 97j:83002
 Penrose, Roger see Hawking, Stephen W., 97a:83003
 Items with secondary classifications in 83-02
 Beem, John K. (with Ehrlich, Paul E.; Easley, Kevin L.) ★ Global Lorentzian geometry. (English summary) 97f:53100
 Christodoulou, Demetrios Phase transitions in self-gravitating relativistic fluids. (see 97k:00016)
 D'Eath, P. D. ★ Black holes. 97m:83053
 Easley, Kevin L. see Beem, John K.; et al., 97f:53100
 Ehrlich, Paul E. see Beem, John K.; et al., 97f:53100
 Ellis, George F. R. Black holes. (English summary) 97m:83055
 Finkelstein, David Ritz ★ Quantum relativity. (English summary) 97j:81002
 Jacobson, Ted (with Kang, Gungwon; Myers, Robert C.) Black hole entropy in higher-curvature gravity. (English summary) 97i:83039
 Kang, Gungwon see Jacobson, Ted; et al., 97i:83039
 Myers, Robert C. see Jacobson, Ted; et al., 97i:83039
 Susskind, Leonard (with Uglum, John) String physics and black holes. (English summary) 97g:83118
 Uglum, John see Susskind, Leonard, 97g:83118
 Will, Clifford M. The confrontation between general relativity and experiment: a 1995 update. 97k:83007

83-03 Historical (must also be assigned at least one classification number from Section 01)

- (de Broglie, Louis) see Lochak, Georges; et al.
 (Einstein, Albert) see Renn, Jürgen; et al., 97g:83003
 Fargue, D. see Lochak, Georges; et al.
 Grünbaum, Adolf Theological misinterpretations of current physical cosmology. (English summary) 97c:83002
 Karatchentzeff, Michel see Lochak, Georges; et al.
 Lochak, Georges (with Karatchentzeff, Michel; Fargue, D.) Introduction to Louis de Broglie's *Diverses questions de mécanique et de thermodynamique classiques et relativistes* [Springer, Berlin, 1995]. (French)
 Maltese, Giulio (with Orlando, Lucia) The definition of rigidity in the special theory of relativity and the genesis of the general theory of relativity. 97g:83002
 Orlando, Lucia see Maltese, Giulio, 97g:83002
 Renn, Jürgen (with Sauer, Tilman; Stachel, John) The origin of gravitational lensing. A postscript to Einstein's 1936 Science paper: "Lens-like action of a star by the deviation of light in the gravitational field" [Science 84 (1936), 506-507] by A. Einstein. (English summary) 97g:83003
 Sauer, Tilman see Renn, Jürgen; et al., 97g:83003
 Schröder, Wilfried see Treder, Hans-Jürgen, 97f:83001
 Stachel, John History of relativity. (see 97a:00023)
 — see also Renn, Jürgen; et al., 97g:83003
 Treder, Hans-Jürgen (with Schröder, Wilfried) Hans Ertel and relativistic potential vorticity. 97f:83001
 Tyapkin, A. A. On the history of the special relativity concept. (English summary) 97c:83003

Items with secondary classifications in 83-03

- (Barbour, Julian B.) see Mach's principle, 97a:83005 and Vizgin, Vi. P., 97c:01033
 Barreau, Hervé Poincaré et l'espace-temps ou un conventionalisme insuffisant. (French summary) [Poincaré and space-time, or an insufficient conventionalism] 97f:01021
 Bartels, Andreas Von Einstein zu Aristoteles. Raumzeit-Philosophie und Substanz-Metaphysik. (German summary) [From Einstein to Aristotle. Spacetime philosophy and substance metaphysics] 97g:00005
 (Beck, Anna) see Einstein, Albert, 97c:01047
 Boi, Luciano Die Beziehungen zwischen Raum, Kontinuum und Materie im Denken Riemanns; die Äthervorstellung und die Einheit der Physik. Das Entstehen einer neuen Naturphilosophie. [The relationships between space, continuum and matter in

Riemann's thinking; the concept of ether and the unity of physics. The evolution of a new philosophy of nature] 97g:01015

- (Brown, Laurie M.) see Twentieth century physics, 97a:00023
 Einstein, Albert ★ Sur l'électrodynamique des corps en mouvement. (French) [On the electrodynamics of moving bodies] 97a:01072
 — ★ The collected papers of Albert Einstein. Vol. 4. 97c:01047
 Ellis, George F. R. Contributions of K. Gödel to relativity and cosmology. (English summary) 97m:01053
 Giannetto, Enrico Henri Poincaré and the rise of special relativity. (English summary) 97f:01023
 (Gödel, Kurt) see Ellis, George F. R., 97m:01053
 Grünbaum, Adolf Energy conservation and theological misinterpretations of current physical cosmology. (French summary) 97g:00008
 Heller, Michael ★ Lemaître, big bang, and the quantum universe. (English summary) 97d:01023
 Hon, Gloria Disturbing, but not surprising: did Gödel surprise Einstein with a rotating universe and time travel? (English summary) 97c:01029
 (Howard, Don) see Einstein, Albert, 97c:01047
 Israel, Werner Impinging stars, shifting continents, and the inconstancy of matter. (English summary)
 Kamlah, Andreas Poincaré's philosophy of relativity and geometrical intuition. (French summary) 97f:00008
 (Lambert, Dominique) see Lemaître, Georges, 97k:01070
 Lemaître, Georges Pour découvrir ou redécouvrir Georges Lemaître. [Discovering or rediscovering Georges Lemaître] 97k:01070
 — see also Heller, Michael, 97d:01023
 Miller, Arthur I. Why did Poincaré not formulate special relativity in 1905? (French summary) 97b:01014
 (Pais, Abraham) see Twentieth century physics, 97a:00023
 Paty, Michel Poincaré et le principe de relativité. (French summary) [Poincaré and the principle of relativity] 97a:01040
 (Pfister, Herbert) see Mach's principle, 97a:83005
 (Pippard, Brian) see Twentieth century physics, 97a:00023
 (Poincaré, Henri) see Giannetto, Enrico, 97f:01023
 (Riemann, Georg Friedrich Bernhard) see Boi, Luciano, 97g:01015
 Vishveshwara, C. V. On the black hole trail... a personal journey. 97i:83045
 Vizgin, Vi. P. ★ Unified field theories in the first third of the 20th century. (English summary) 97c:01033
 Wheeler, John Archibald ★ At home in the universe. 97h:83001
 Items listed otherwise than by author
 Collected Works:
 Einstein, Albert see Einstein, Albert, 97c:01047
 Conference:
 Mach's Principle ★ Mach's principle. 97a:83005
 Mach's principle ★ Mach's principle. 97a:83005
 Tübingen ★ Mach's principle. 97a:83005
 Twentieth century physics ★ Twentieth century physics. Vol. I, II, III. 97a:00023

83-04 Explicit machine computation and programs (not the theory of computation or programming)

- Daftardar, Varsha Evaluation of Ashtekar variables using STENSOR. (English summary) 97i:83001
 Fonseca-Neto, Joel B. (with Rebouças, M. J.; MacCallum, Malcolm A. H.) Algebraic computing in torsion theories of gravitation. (English summary) 97j:83003
 Kadlecik, József Ricci calculus package in REDUCE. (English summary) 97f:83002
 Lake, Kayll see Pollney, Denis; et al., 97c:83001 and Musgrave, Peter, 97g:83004
 MacCallum, Malcolm A. H. see Fonseca-Neto, Joel B.; et al., 97j:83003
 Musgrave, Peter (with Lake, Kayll) Junctions and thin shells in general relativity using computer algebra. I. The Darboux-Israel formalism. (English summary) 97g:83004
 — see also Pollney, Denis; et al., 97c:83001
 Pollney, Denis (with Musgrave, Peter; Santosuosso, Kevin; Lake, Kayll) Algorithms for computer algebra calculations in spacetime. I. The calculation of curvature. (English summary) 97c:83001
 Rebouças, M. J. see Fonseca-Neto, Joel B.; et al., 97j:83003
 Santosuosso, Kevin see Pollney, Denis; et al., 97c:83001

Items with secondary classifications in 83-04

- Hamadé, Rufus S. (with Stewart, John M.) The spherically symmetric collapse of a massless scalar field. (English summary) 97d:83017
 Stewart, John M. see Hamadé, Rufus S., 97d:83017
 Thornburg, Jonathan Finding apparent horizons in numerical relativity. (English summary) 97m:83005
 Vulcanov, D. N. Algebraic programming of the Hamiltonian treatment of some inhomogeneous space-time models. (English summary) 97i:83010

83-05 Experimental papers

Items with secondary classifications in 83-05

- Damour, Thibault General relativity and experiment. (English summary) 97a:83010

83-06 Proceedings, conferences, collections, etc.

- (Barbour, Julian B.) see Mach's principle, 97a:83005
 (Cotsakis, Spiros) see Global structure and evolution in general relativity, 97a:83004
 (Gibbons, Gary W.) see Global structure and evolution in general relativity, 97a:83004
 (Hall, G. S.) see General relativity, 97d:83001
 (Jetzer, Philippe) see Conference: Relativity Theory 96, 97i:83002 and 97k:83001

- (Lavrelashvili, G. V.) *see* Conference: Relativity Theory 96, 97i:83002 and 97k:83001
 (Macías, Alfredo) *see* Recent developments in gravitation and mathematical physics, 97m:83001
 (Matos, Tonatihu) *see* Recent developments in gravitation and mathematical physics, 97m:83001
 (Narlikar, Jayant V.) *see* Some aspects of gravitation and cosmology, 97b:83002
 (Obregón, Octavio) *see* Recent developments in gravitation and mathematical physics, 97m:83001
 (Pflster, Herbert) *see* Mach's principle, 97a:83005
 (Pronin, P. I.) *see* Gravity, particles and space-time, 97k:83002
 (Pulham, J. R.) *see* General relativity, 97d:83001
 (Quevedo, Hernando) *see* Recent developments in gravitation and mathematical physics, 97m:83001
 (Sardanashvili, G. A.) *see* Gravity, particles and space-time, 97k:83002
 (Straumann, Norbert) *see* Conference: Relativity Theory 96, 97i:83002 and 97k:83001
 (Vulcanov, D. N.) *see* General relativity and gravitation, 97d:83002

Items listed otherwise than by author

- Aberdeen** ★ General relativity. 97d:83001
Ascona ★ Journées Relativistes 96. Part I. [Conference on Relativity Theory 96. Part I] 97i:83002
 — ★ Journées Relativistes 96. Part II. [Conference on Relativity Theory 96. Part II] 97k:83001
Bistrița ★ General relativity and gravitation. 97d:83002
Conference:
Indian Association of General Relativity and Gravitation ★ Some aspects of gravitation and cosmology. 97b:83002
Mach's Principle ★ Mach's principle. 97a:83005
Relativity Theory 96 ★ Journées Relativistes 96. Part I. [Conference on Relativity Theory 96. Part I] 97i:83002
 — ★ Journées Relativistes 96. Part II. [Conference on Relativity Theory 96. Part II] 97k:83001
Theoretical Physics ★ General relativity and gravitation. 97d:83002
General relativity ★ General relativity. 97d:83001
General relativity and gravitation ★ General relativity and gravitation. 97d:83002
Global structure and evolution in general relativity ★ Global structure and evolution in general relativity. 97a:83004
Gravity, particles and space-time ★ Gravity, particles and space-time. 97k:83002
Guanajuato ★ Recent developments in gravitation and mathematical physics. 97m:83001
Karlovassi ★ Global structure and evolution in general relativity. 97a:83004
Lecture Notes in Physics ★ Global structure and evolution in general relativity. 97a:83004
London ★ Symposium on Fundamental Physics in Space.
Mach's principle ★ Mach's principle. 97a:83005
Meeting:
Cosmology, Geometry and Relativity ★ Global structure and evolution in general relativity. 97a:83004

NATO Advanced Study Institute:

- General Relativity** ★ General relativity. 97d:83001
Pune ★ Some aspects of gravitation and cosmology. 97b:83002
Recent developments in gravitation and mathematical physics ★ Recent developments in gravitation and mathematical physics. 97m:83001
School:
Gravitation and Mathematical Physics ★ Recent developments in gravitation and mathematical physics. 97m:83001
Physics ★ General relativity. 97d:83001
Some aspects of gravitation and cosmology ★ Some aspects of gravitation and cosmology. 97b:83002
Symposium:
Fundamental Physics in Space ★ Symposium on Fundamental Physics in Space.
Tübingen ★ Mach's principle. 97a:83005

Items with secondary classifications in 83-06

- (Dijkgraaf, Robbert) *see* String theory, gauge theory and quantum gravity, 97c:81005
 (Fulling, Stephen A.) *see* Heat kernel techniques and quantum gravity, 97f:00018
 (Hepp, Klaus) *see* Papers honouring the 60th birthday of Klaus Hepp and of Walter Hunziker, 97k:81005
 (Hunziker, Walter) *see* Papers honouring the 60th birthday of Klaus Hepp and of Walter Hunziker, 97k:81005
 (Klebanov, Igor R.) *see* String theory, gauge theory and quantum gravity, 97c:81005
 (Lüst, Dieter) *see* Theory of elementary particles, 97e:81003
 (Narain, K. S.) *see* String theory, gauge theory and quantum gravity, 97c:81005
 (Randjbar-Daemi, S.) *see* String theory, gauge theory and quantum gravity, 97c:81005
 (Weigt, G.) *see* Theory of elementary particles, 97e:81003

Items listed otherwise than by author

- Birthday:**
Hepp, Klaus ★ Papers honouring the 60th birthday of Klaus Hepp and of Walter Hunziker. Part II. 97k:81005
Hunziker, Walter ★ Papers honouring the 60th birthday of Klaus Hepp and of Walter Hunziker. Part II. 97k:81005
Buckow ★ Theory of elementary particles. 97e:81003
Conference:
Heat Kernel Techniques and Quantum Gravity ★ Heat kernel techniques and quantum gravity. 97f:00018
Festschrift:
Hepp, Klaus ★ Papers honouring the 60th birthday of Klaus Hepp and of Walter Hunziker. Part II. 97k:81005
Hunziker, Walter ★ Papers honouring the 60th birthday of Klaus Hepp and of Walter Hunziker. Part II. 97k:81005

Heat kernel techniques and quantum gravity ★ Heat kernel techniques and quantum gravity. 97f:00018

Papers honouring the 60th birthday of Klaus Hepp and of Walter Hunziker ★ Papers honouring the 60th birthday of Klaus Hepp and of Walter Hunziker. Part II. 97k:81005

School:

String Theory, Gauge Theory and Quantum Gravity ★ String theory, gauge theory and quantum gravity. 97c:81005

String theory, gauge theory and quantum gravity ★ String theory, gauge theory and quantum gravity. 97c:81005

Symposium:

Theory of Elementary Particles ★ Theory of elementary particles. 97e:81003

Theory of elementary particles ★ Theory of elementary particles. 97e:81003

Trieste ★ String theory, gauge theory and quantum gravity. 97c:81005

Winnipeg, MB ★ Heat kernel techniques and quantum gravity. 97f:00018

Workshop:

String Theory, Gauge Theory and Quantum Gravity ★ String theory, gauge theory and quantum gravity. 97c:81005

Zürich ★ Papers honouring the 60th birthday of Klaus Hepp and of Walter Hunziker. Part II. 97k:81005

83-08 Computational methods

- Balakrishna, Jayashree** (with Daues, Gregory; Seidel, Edward; Suen, Wai-Mo; Tobias, Malcolm; Wang, Edward) Coordinate conditions in three-dimensional numerical relativity. (English summary) 97g:83005
Balan, Vladimir *see* Udriste, Constantin; et al., 97e:53002
Berger, Beverly K. (with Garfinkle, David; Strasser, Eugene) New algorithm for Mixmaster dynamics. (English summary) 97k:83003
Bishop, Nigel T. Numerical relativity on null cones. (English summary) 97c:83004
 — (with Gómez, Roberto; Lehner, Luis; Winicour, Jeffrey) Cauchy-characteristic extraction in numerical relativity. (English summary) 97g:83006
 — (with Haines, Paul) Observational cosmology and numerical relativity. (English summary) 97b:83003
Clarke, Chris J. S. (with d'Inverno, Ray A.; Vickers, J. A. G.) Combining Cauchy and characteristic codes. I. The vacuum cylindrically symmetric problem. (English summary) 97d:83003
 — *see also* Dubal, Mark R.; et al., 97f:83003
Comer, G. L. 3 + 1 approach to the long-wavelength iteration scheme. (English summary) 97m:83002
Daues, Gregory *see* Balakrishna, Jayashree; et al., 97g:83005
Dubal, Mark R. (with d'Inverno, Ray A.; Clarke, Chris J. S.) Combining Cauchy and characteristic codes. II. The interface problem for vacuum cylindrical symmetry. (English summary) 97f:83003
Garfinkle, David *see* Berger, Beverly K.; et al., 97k:83003
Gómez, Roberto *see* Bishop, Nigel T.; et al., 97c:83004
Grigoryan, O. A. (with Sadoyan, A. A.) A numerical method of studying the evolution of spherically symmetric superdense celestial bodies. (English summary) 97i:83003
Haines, Paul *see* Bishop, Nigel T., 97b:83003
d'Inverno, Ray A. *see* Clarke, Chris J. S.; et al., 97d:83003 and Dubal, Mark R.; et al., 97f:83003
Lehner, Luis *see* Bishop, Nigel T.; et al., 97g:83006
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- Sparano, G. *see* Lizzi, Fedele; et al., 97i:83064
- Starobinskiĭ, A. A. *see* Lesgourgues, J.; et al., 97k:83085
- Stewart, Ewan D. Flattening the inflaton's potential with quantum corrections. (English summary) 97b:83099
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- Suzuki, Hisao (with Takasugi, Eiichi; Takayama, Yasuhiro) Classically integrable cosmological models with a scalar field. (English summary) 97a:83102
- Takasugi, Eiichi *see* Suzuki, Hisao; et al., 97a:83102
- Takayama, Yasuhiro *see* Suzuki, Hisao; et al., 97a:83102
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- Tomasciutz, Roman Topologically induced chaos in the open universe. (English summary) 97i:83065
- Triay, R. An alternative to inflation. (English summary) 97m:83093
- Turok, Neil A causal source which mimics inflation. (English summary) 97i:83066
- Veneziano, G. *see* Gasparini, M., 97j:83106
- Vilja, Iiro On the use of classical configurations as subcritical bubbles. (English summary) 97i:83067
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- Zhuravlev, V. M. *see* Chervon, S. V.; et al., 97b:83097; 97i:83063 and 97m:83089

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- de Ritis, R. *see* Capozziello, S.; et al., 97a:83082
- Rosenthal, Philip J. *see* Cleaver, Gerald B., 97a:83092
- Rubano, C. *see* Capozziello, S.; et al., 97a:83082
- Sakellariadou, Mairi *see* Fabris, Júlio César, 97k:83074
- Salim, Jose M. *see* Novello, M.; et al., 97h:83045
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1. Formulation of the space-time continuum of general relativity. (Russian. Russian summary) 97f:83041
- Scudellaro, P. *see* Capozziello, S.; et al., 97a:83082
- Senovilla, José M. M. Towards realistic singularity-free cosmological models. (English summary) 97a:83031
- (with Vera, Raúl) Impossibility of the cylindrically symmetric Einstein-Straus model. (English summary) 97f:83019
- Sforza, Daniel M. *see* Castagnino, Mario A.; et al., 97f:83030
- Singh, J. K. *see* Ram, Shri, 97a:83087
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- Wilson, Jonathan P. *see* Clarke, Chris J. S.; et al., 97g:83085
- Wolf, Carl Anton The statistical mechanics of particles obeying discrete spatial quantum theory. (English summary) 97h:82010
- Woodard, R. P. *see* Tsamis, N. C., 97k:83041
- Zemlyakov, A. T. The tunneling process in quantum cosmology. (Russian. English, Russian and Ukrainian summaries) 97b:83035
- Zhu, Jian Yang Third quantization of the universe field in induced gravity theory. (Chinese. English and Chinese summaries) 97a:83050

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Conference:

- Mach's Principle ★ Mach's principle. 97a:83005
- Mach's principle ★ Mach's principle. 97a:83005
- Tübingen ★ Mach's principle. 97a:83005

85-XX Astronomy and astrophysics {For celestial mechanics, see 70F15.}

85-01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 85-01

Boccaletti, D. (with Pucacco, Giuseppe) ★ Theory of orbits. Vol. 1. (English summary) 97f:70013

Pucacco, Giuseppe see Boccaletti, D., 97f:70013

85-03 Historical (must also be assigned at least one classification number from Section 01)

Gautschi, Alfred The development of the theory of stellar pulsations. (English summary)

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Bowen, Alan C. (with Goldstein, Bernard R.) Geminus and the concept of mean motion in Greco-Latin astronomy. 97g:01004

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Goldstein, Bernard R. see Bowen, Alan C., 97g:01004

Israel, Werner Imploding stars, shifting continents, and the inconstancy of matter. (English summary)

Kozenko, A. V. (with Potapova, L. V.) 250 years of the theory of the shape of the Earth: periodization of the development of the theory of the shape of a compressible self-gravitating slowly rotating fluid. (Russian) 97b:01032

Kragh, Helge Gamow's game: the road to the hot big bang.

(Pais, Abraham) see Twentieth century physics, 97a:00023

(Pippard, Brian) see Twentieth century physics, 97a:00023

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85-05 Experimental papers

Haynes, Martha P. Mapping the universe in three dimensions. (English summary) (see 97j:00016)

Trimble, Virginia Astrophysical symmetries. (English summary) (see 97j:00016)

85-08 Computational methods

Knežević, Z. An efficient algorithm for the analytic computation of planetary short-periodic perturbations. (English summary) 97c:85001

Items with secondary classifications in 85-08

Buchler, J. R. see Letellier, C.; et al., 97e:85001

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Gouesbet, G. see Letellier, C.; et al., 97e:85001

Kolláth, Z. see Letellier, C.; et al., 97e:85001

Koseleff, P.-V. Exhaustive search of symplectic integrators using computer algebra. (English summary) 97g:70002

Letellier, C. (with Gouesbet, G.; Soufi, F.; Buchler, J. R.; Kolláth, Z.) Chaos in variable stars: topological analysis of W Vir model pulsations. (English summary) 97e:85001

McCormick, N. J. see Steinfelds, Eric; et al., 97k:85001

Morel, Jim Emanuel (with Wareing, Todd A.; Smith, Kenneth) A linear-discontinuous spatial differencing scheme for S_N radiative transfer calculations. (English summary) 97f:85001

Peltier, W. R. see Stuhne, G. R., 97e:76067

Reid, James H. see Steinfelds, Eric; et al., 97k:85001

Samuel, Mark A. see Steinfelds, Eric; et al., 97k:85001

Shcheprov, A. V. Numerical investigation of the motion of molecules in a spherically symmetric gravitational field. (Russian. Russian summary) 97a:86017

Smith, Kenneth see Morel, Jim Emanuel; et al., 97f:85001

Soufi, F. see Letellier, C.; et al., 97e:85001

Steinfelds, Eric (with Samuel, Mark A.; McCormick, N. J.; Reid, James H.) Radiative transfer single-scattering albedo estimation with a super-Padé approximation of Chandrasekhar's H -function. (English summary) 97k:85001

Stuhne, G. R. (with Peltier, W. R.) Vortex erosion and amalgamation in a new model of large scale flow on the sphere. (English summary) 97e:76067

Wareing, Todd A. see Morel, Jim Emanuel; et al., 97f:85001

85A05 Galactic and stellar dynamics

Chernin, A. D. Eddies in the universe.

Rosensteel, G. Galactic dynamics in the Siegel half-plane. (English summary) 97d:85001

Items with secondary classifications in 85A05

Bloch, Anthony M. (with Krishnaprasad, P. S.; Marsden, Jerrold E.; Ratiu, Tudor S.) The Euler-Poincaré equations and double bracket dissipation. (English summary) 97h:58100

Krishnaprasad, P. S. see Bloch, Anthony M.; et al., 97h:58100

Lima, Pedro M. Numerical methods and asymptotic error expansions for the Emden-Fowler equations. (English summary) 97m:65137

Marsden, Jerrold E. see Bloch, Anthony M.; et al., 97h:58100

Miller, Bruce N. (with Youngkins, V. Paige) Dynamics of a pair of spherical gravitating shells. (English summary) 97m:70021

Ratiu, Tudor S. see Bloch, Anthony M.; et al., 97h:58100

Youngkins, V. Paige see Miller, Bruce N., 97m:70021

85A15 Galactic and stellar structure

Buchler, J. R. see Letellier, C.; et al., 97e:85001

Ducomet, B. On the stability of a stellar structure in one dimension. (English summary) 97b:85001

— Hydrodynamical models of gaseous stars. (English summary) 97i:85001

Gouesbet, G. see Letellier, C.; et al., 97e:85001

Jedryka, Tadeusz Marian (with Wegner, Walter) Well posed solution of Schwarzschild integral equation in case when the extinction law is known. 97j:85001

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Letellier, C. (with Gouesbet, G.; Soufi, F.; Buchler, J. R.; Kolláth, Z.) Chaos in variable stars: topological analysis of W Vir model pulsations. (English summary) 97e:85001

Liu, Ze Wen A new equation for stellar structure. (Chinese. English and Chinese summaries)

Soufi, F. see Letellier, C.; et al., 97e:85001

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Yokoi, Nobumitsu Turbulent dynamo theory and its application to the Milky Way. (Japanese) (see 97b:76001)

85A20 Stellar atmospheres

Items with secondary classifications in 85A20

Alkhabby, Hadi Yahya On resistive dissipation of Alfvén waves in an isothermal atmosphere. (English summary) 97f:76078

— see also Mahrous, Mohamed A., 97h:85001

Ducomet, B. On the stability of a stellar structure in one dimension. (English summary) 97b:85001

Kuan, Wen-chi (with Lin, Song-sun) Numbers of equilibria for the equation of self-gravitating isentropic gas surrounding a solid ball. (English summary) 97e:76071

Lin, Song-sun see Kuan, Wen-chi, 97e:76071

Mahrous, Mohamed A. (with Alkhabby, Hadi Yahya) Reflection of vertically spinning Alfvén waves in a magnetic flux tube in an isothermal atmosphere. (English summary) 97h:85001

85A25 Radiative transfer

Andersen, Flemming M. B. Marshak boundary condition recurrence formulae. (English summary)

Belleni-Morante, Aldo (with Moro, A.) Time dependent photon transport in an interstellar cloud with stochastic clumps. (English summary) 97c:85002

Blokhin, A. M. (with Romano, Vittorio; Trakhinin, Yu. L.) Some mathematical properties of radiating gas model obtained with a variable Eddington factor. (English summary) 97i:85002

Garcia, R. D. M. On computing some functions basic to the F_N method in radiative transfer. (English summary) 97m:85001

Gryn', V. I. Inverse problems of stationary radiation transfer. (Russian. Russian summary) 97a:85001

Kireltov, V. R. Cauchy, Dirichlet and some inverse problems for the Peierls one-velocity equation of radiation transfer theory in a uniformly absorbing and scattering medium with isotropic sources. (Russian. Russian summary) 97d:85002

McCormick, N. J. see Steinfelds, Eric; et al., 97k:85001

Morel, Jim Emanuel (with Wareing, Todd A.; Smith, Kenneth) A linear-discontinuous spatial differencing scheme for S_N radiative transfer calculations. (English summary) 97f:85001

Moro, A. see Belleni-Morante, Aldo, 97c:85002

Nagira, D. I. Radiation transport in a cylinder. I. Resolvent of the fundamental integral equation. (English summary) 97j:85002

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Reid, James H. see Steinfelds, Eric; et al., 97k:85001

Rogovtsov, N. N. On the solution in closed form of the characteristic equation of radiation transport theory. (Russian) (see 97g:00017)

Romano, Vittorio see Blokhin, A. M.; et al., 97i:85002

Samuel, Mark A. see Steinfelds, Eric; et al., 97k:85001

Smith, Kenneth see Morel, Jim Emanuel; et al., 97f:85001

Steinfelds, Eric (with Samuel, Mark A.; McCormick, N. J.; Reid, James H.) Radiative transfer single-scattering albedo estimation with a super-Padé approximation of Chandrasekhar's H -function. (English summary) 97k:85001

Trakhinin, Yu. L. see Blokhin, A. M.; et al., 97i:85002

Wareing, Todd A. see Morel, Jim Emanuel; et al., 97f:85001

Items with secondary classifications in 85A25

Amic, E. (with Luck, J. M.; Nieuwenhuizen, Th. M.) Anisotropic multiple scattering in diffusive media. (English summary) 97f:78001

Blokhin, A. M. (with Trakhinin, Yu. L.) Symmetrization of a system of equations of radiative hydrodynamics, and global solvability of the Cauchy problem. (Russian. Russian summary) 97k:76109

Ducomet, B. On the stability of a stellar structure in one dimension. (English summary) 97b:85001

Fort, Joaquim (with Liebot, J. E.) Radiative transfer in the framework of extended irreversible thermodynamics. (English summary) 97h:82055

Föhrer, Christian (with Rannacher, Rolf) Error analysis for the finite element approximation of a radiative transfer model. (English and French summaries) 97m:65240

Liebot, J. E. see Fort, Joaquim, 97h:82055

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85A30 Hydrodynamic and hydromagnetic problems [see also 76Y05]

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Mahrous, Mohamed A. (with Alkhabby, Hadi Yahya) Reflection of vertically spinning Alfvén waves in a magnetic flux tube in an isothermal atmosphere. (English summary) 97b:85001

Nedoma, Jiří Nonlinear analysis of the generalized thermomagneto-dynamic problem. (English summary) 97g:85001

Items with secondary classifications in 85A30

Avellaneda, Marco *see* Laurence, Peter, 97m:76141

Biler, Piotr (with Nadzieja, T.) Growth and accretion of mass in an astrophysical model. II. (English summary) 97b:35110

Bubnov, B. M. (with Golitsyn, G. S.) ★ Convection in rotating fluids. (English summary) 97b:76135

Buchler, J. R. *see* Letellier, C.; et al., 97e:85001

Dimian, Mourad F. *see* Radwan, Ahmed E., 97j:76019

Ducomet, B. Hydrodynamical models of gaseous stars. (English summary) 97i:85001

Fioc, M. *see* Sokolov, D. D.; et al., 97a:76129

Ghildyal, V. (with Kalra, G. L.) Linear waves and instabilities in thermally anisotropic two-component magnetohydrodynamics. (English summary) 97m:76138

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Gouesbet, G. *see* Letellier, C.; et al., 97e:85001

Ivers, D. J. On the antidymano theorem for partly symmetric flows. (English summary) 97e:76093

Kaiser, Ralf Joachim Towards a poloidal magnetic field theorem. (English summary) 97f:76079

Kalra, G. L. *see* Ghildyal, V., 97m:76138

Kolláth, Z. *see* Letellier, C.; et al., 97e:85001

Kozenko, A. V. (with Potapova, L. V.) 250 years of the theory of the shape of the Earth: periodization of the development of the theory of the shape of a compressible self-gravitating slowly rotating fluid. (Russian) 97b:01032

Kuzanyan, Kirill M. (with Sokolov, D. D.) A dynamo wave in an inhomogeneous medium. (English summary) 97a:76126

Laurence, Peter (with Avellaneda, Marco) Woltjer's variational principle. II. The case of unbounded domains. (English summary) 97m:76141

Lebovitz, Norman R. (with Lifschitz, Alexander E.) Short-wavelength instabilities of Riemann ellipsoids. 97b:76136

Letellier, C. (with Gouesbet, G.; Soufi, F.; Buchler, J. R.; Kolláth, Z.) Chaos in variable stars: topological analysis of W Vir model pulsations. (English summary) 97e:85001

Lifschitz, Alexander E. *see* Lebovitz, Norman R., 97b:76136

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Pogorelov, N. V. (with Seménov, A. Yu.) Modification of nonreflecting boundary conditions in gas dynamic modeling in astrophysics. (Russian. Russian summary) 97e:76074

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Rabinovich, B. I. Magnetohydrodynamics of rotating vortex rings of magnetized plasma. (Russian) 97b:76136

Radwan, Ahmed E. (with Dimian, Mourad F.) MHD oscillation of Jeans' model for three dimensions wave propagation. (English summary) 97j:76019

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Sokolov, D. D. (with Fioc, M.; Nesme-Ribes, E.) Asymptotic properties of dynamo waves. (Russian) 97a:76129

— *see also* Kuzanyan, Kirill M., 97a:76126

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85A35 Statistical astronomy

Babu, Guttu Jogesh (with Feigelson, Eric D.) Spatial point processes in astronomy. (English summary) 97a:85002

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Dai, Guang-ming Modal wave-front reconstruction with Zernike polynomials and Karhunen-Loève functions. (English summary) 97k:78011

85A40 Cosmology {For relativistic cosmology, see 83F05.}

Bishop, Nigel T. *see* Haines, Paul, 97a:85003

Haines, Paul (with Bishop, Nigel T.) Comparing large-scale cosmological density fluctuations. (English summary) 97a:85003

Items with secondary classifications in 85A40

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Triay, R. An alternative to inflation. (English summary) 97m:83093

85A45 Radio astronomy

Items with secondary classifications in 85A45

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Kakigi, Yuuko (with Okamura, Takashi; Fukuyama, Takeshi) Gravitational lensing and catastrophe theory. (English summary) 97k:83070

Okamura, Takashi *see* Kakigi, Yuuko; et al., 97k:83070

Petters, A. O. Multiplane gravitational lensing. I. Morse theory and image counting. (English summary) 97d:58024

— Multiplane gravitational lensing. II. Global geometry of caustics. (English summary) 97d:58025

85A99 Miscellaneous topics

Finkel'shtein, A. M. (with Kosheleva, Olga; Kreinovich, Vladik Ya.) Astrogeometry: toward mathematical foundations. (English summary) 97m:85002

Kosheleva, Olga *see* Finkel'shtein, A. M.; et al., 97m:85002

Kreinovich, Vladik Ya. *see* Finkel'shtein, A. M.; et al., 97m:85002

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Chicone, Carmen (with Mashhoon, B.; Retzliff, D. G.) On the ionization of a Keplerian binary system by periodic gravitational radiation. (English summary) 97d:70012

— (with Mashhoon, B.; Retzliff, D. G.) Addendum: "On the ionization of a Keplerian binary system by periodic gravitational radiation" [J. Math. Phys. 37 (1996), no. 8, 3997–4016; MR 97d:70012].

Mashhoon, B. *see* Chicone, Carmen; et al., 97d:70012

Retzliff, D. G. *see* Chicone, Carmen; et al., 97d:70012

Worsley, K. J. Boundary corrections for the expected Euler characteristic of excursion sets of random fields, with an application to astrophysics. (English summary) 97b:60068

86-XX Geophysics [see also 73N05, 76U05, 76V05]

86-02 Research exposition (monographs, survey articles)

(Engl, Heinz W.) *see* Inverse problems in geophysical applications, 97h:86001
(Louis, Alfred K.) *see* Inverse problems in geophysical applications, 97h:86001
(Rundell, William) *see* Inverse problems in geophysical applications, 97h:86001

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Conference:

Inverse Problems in Geophysics ★ Inverse problems in geophysical applications. 97h:86001

Inverse problems in geophysical applications ★ Inverse problems in geophysical applications. 97h:86001

Symposium:

Inverse Problems ★ Inverse problems in geophysical applications. 97h:86001

Yosemite, CA ★ Inverse problems in geophysical applications. 97h:86001

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(Wheeler, Mary Fanett) *see* Environmental studies, 97f:00012

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86-03 Historical (must also be assigned at least one classification number from Section 01)

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(Israel, Werner) Impinging stars, shifting continents, and the inconstancy of matter. (English summary) 97a:00023

(Pais, Abraham) *see* Twentieth century physics, 97a:00023

(Pippard, Brian) *see* Twentieth century physics, 97a:00023

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86-06 Proceedings, conferences, collections, etc.

(Holm, Darryl D.) *see* Nonlinear phenomena in ocean dynamics, 97f:86001

(Malone, Robert C.) *see* Nonlinear phenomena in ocean dynamics, 97f:86001

(Margolin, Len G.) *see* Nonlinear phenomena in ocean dynamics, 97f:86001

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Los Alamos, NM ★ Nonlinear phenomena in ocean dynamics. 97f:86001

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Nonlinear phenomena in ocean dynamics ★ Nonlinear phenomena in ocean dynamics. 97f:86001

Items with secondary classifications in 86-06

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(Monaco, Roberto) *see* Advanced mathematical tools in metrology, 97f:65004

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86-08 Computational methods

Baptista, António M. *see* Fortunato, André B., 97a:86002

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Craig, Maurice Analytic signals for multivariate data. (English summary) 97a:86001

Davies, Terry (with Hunt, J. C. R.) New developments in numerical weather prediction. (see 97c:76003)

Dewson, T. *see* Irving, A. D., 97j:86001

Fortunato, André B. (with Baptista, António M.) Vertical discretization in tidal flow simulations. (English summary) 97a:86002

Fusina, R. A. (with Cooper, A. L.; Chubb, S. R.) High resolution computations of ocean wave spectral modulations due to two-dimensional wave-current interactions. (English summary) 97m:86001

Gray, W. G. *see* Kolar, R. L.; et al., 97a:86003

Holland, William R. Ocean circulation modeling. (see 97f:76001)

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Irving, A. D. (with Dewson, T.) Determining mixed linear-nonlinear coupled differential equations from multivariate discrete time series sequences. (English summary) 97j:86001

Ji, Zhong-Zhen *see* Wang, Bin¹, 97j:86002

Kolar, R. L. (with Gray, W. G.; Westerink, J. J.) Boundary conditions in shallow water models—an alternative implementation for finite element codes. (English summary) 97a:86003

Laydi, Mohamed Rachid Approximation d'un système d'équations de Navier-Stokes utilisant l'hypothèse hydrostatique et application. (English and French summaries) [Approximating a system of Navier-Stokes equations using the hydrostatic hypothesis, and application] 97f:86002

Lilly, Douglas K. Numerical simulation and prediction of atmospheric convection. (see 97f:76001)

Lin, Binliang (with Chandler-Wilde, Simon N.) A depth-integrated 2D coastal and estuarine model with conformal boundary-fitted mesh generation. (English summary) 97c:86001

Mallet, J. L. Discrete modeling for natural objects. (English summary) 97k:86001

Petzold, Linda R. *see* Van Keken, Peter E.; et al., 97a:86004

Pini, Giorgio (with Teatini, Pietro) Parallel block iterative method for multiaquifer flow models. (English summary) 97k:86002

Rozendorn, È. R. A class of grids with a slowly changing step on a sphere. (Russian) 97m:86002

Teatini, Pietro *see* Pini, Giorgio, 97k:86002

Van Keken, Peter E. (with Yuen, David A.; Petzold, Linda R.) DASP: a new high order and adaptive time-integration technique with applications to mantle convection with strongly temperature- and pressure-dependent rheology. (English summary) 97a:86004

Wang, Bin¹ (with Ji, Zhong-Zhen) Splitting method of linear stage and nonlinear stage. (English summary) 97j:86002

Westerink, J. J. *see* Kolar, R. L.; et al., 97a:86003

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Items with secondary classifications in 86-08

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86A17 Global dynamics, earthquake problems

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86A20 Potentials, prospecting [see also 76S05, 76W05]

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86A22 Inverse problems [see also 35R30]

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86A60 Geological problems

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86A99 Miscellaneous topics

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 Sharir, Micha *see* Agarwal, Pankaj K. (97a:68002)

- Smith, Kate (with Palaniswami, M.; Krishnamoorthy, Mohan) A hybrid neural approach to combinatorial optimization. (English summary) 97c:90092
- Sorger, Gerhard see Nishimura, Kazuo, 97i:90021
- Stong, Leen see Schultz, Rüdiger; et al.
- Sudderth, William D. see Maitra, A., 97g:90192
- Suffel, C. L. see Boesch, F. T., (97d:05004)
- Tamura, Akihisa Linear programming and combinatorial optimization. (Japanese) (see 97c:00043)
- Vaessens, Robert Johannes Maria ★ Generalized job shop scheduling: complexity and local search. (Dutch summary) 97c:90055
- Vanderbei, Robert J. ★ Linear programming: foundations and extensions. (English summary) 97i:90002
- Visweswaran, V. see Floudas, Christodoulos A., 97c:90052
- van der Vlerk, Maarten H. see Schultz, Rüdiger; et al.
- Wright, Margaret H. Direct search methods: once scorned, now respectable. (English summary) 97d:90095
- Yatsenko, Yu. P. see Khritonenko, N. V., 97c:90015
- Zenkevich, N. A. see Petrosyan, L. A., 97g:90001
- Zopounidis, C. (with Dimitras, A.) The forecasting of business failure: overview of methods and new avenues. (English summary) (see 97i:90010)

90-03 Historical (must also be assigned at least one classification number from Section 01)

- van Damme, Eric see Kuhn, Harold W.; et al., 97d:90004
- Hammerstein, Peter see Kuhn, Harold W.; et al., 97d:90004
- Harsanyi, John C. see Kuhn, Harold W.; et al., 97d:90004
- Kuhn, Harold W. (with Harsanyi, John C.; Selten, Reinhard; Weibull, Jörgen W.; van Damme, Eric; Nash, John F.; Hammerstein, Peter) The work of John F. Nash Jr. in game theory. 97d:90004
- Nash, John F. see Kuhn, Harold W.; et al., 97d:90004
- Selten, Reinhard see Kuhn, Harold W.; et al., 97d:90004
- Weibull, Jörgen W. see Kuhn, Harold W.; et al., 97d:90004

Items with secondary classifications in 90-03

- Bachelier, Louis ★ Le jeu, la chance et le hasard. (French) [Games and chance] 97b:0125
- ★ Théorie de la spéculation. (French) [Theory of speculation] 97c:01043
- Milrowski, Philip Mandelbrot's economics after a quarter century. (English summary) 97f:01025
- (Nash, John F.) see Work of John Nash in game theory. Nobel Seminar, 97b:01023

Items listed otherwise than by author

- Work of John Nash in game theory. Nobel Seminar The work of John Nash in game theory. Nobel Seminar, December 8, 1994. 97b:01023

90-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 90-04

- Burkard, Rainer E. (with Karisch, Stefan E.; Rendl, Franz) QAPLIB—a quadratic assignment problem library. (English summary)
- Huang, Fenghui (with Pulat, P. Simin; Shih, Li-Hsing) A computational comparison of some bicriterion shortest path algorithms. (English and Chinese summaries)
- Karisch, Stefan E. see Burkard, Rainer E.; et al.
- Kennington, Jeffery L. (with Mohamed, Riad A. K.) Recovery from numerical instability during basis reversion. (English summary)
- Mohamed, Riad A. K. see Kennington, Jeffery L.
- Panagiotopoulos, Panagiotis D. see Pardalos, Panos M.; et al., (97c:90003)
- Pardalos, Panos M. (with Xue, Guoliang; Panagiotopoulos, Panagiotis D.) Parallel algorithms for global optimization problems. (see 97c:90003)
- Pulat, P. Simin see Huang, Fenghui; et al.
- Rendl, Franz see Burkard, Rainer E.; et al.
- Shih, Li-Hsing see Huang, Fenghui; et al.
- Wang, Ding Wei Computational implementation of the unconstrained convex programming algorithm for linear programming. (Chinese. English summary)
- Xi, Yu Geng see Yun, Wei Min
- Xue, Guoliang see Pardalos, Panos M.; et al., (97c:90003)
- Yun, Wei Min (with Xi, Yu Geng) An analysis of global convergence and computational efficiency for a genetic algorithm. (Chinese. English and Chinese summaries)

90-06 Proceedings, conferences, collections, etc.

- (Adams, Loyce) see Linear and nonlinear conjugate gradient-related methods, 97k:90004
- (Alexandrov, Natalia M.) see Multidisciplinary design optimization, 97i:90008
- (Amman, Hans M.) see Conference: Society of Computational Economics, 97m:90002
- (Anstreicher, Kurt M.) see Interior point methods in theory and practice, 97f:90004
- (Bicchi, Cristina) see Dynamics of norms, 97c:90002
- (Cooper, W. W.) see Extensions and new developments in data envelopment analysis, 97c:90003
- (Cunningham, William H.) see Integer programming and combinatorial optimization, 97k:90003
- (Dement'ev, V. T.) see Models and methods of optimization, 97m:90003
- (Duffie, Darrell) see Equilibrium with incomplete markets and an infinite state space, 97b:90002
- (Fandel, Günter) see Multiple criteria decision making, 97i:90009
- (Ferreira, Afonso) see Solving combinatorial optimization problems in parallel, 97c:90003
- (Floudas, Christodoulos A.) see State of the art in global optimization, 97a:90004
- (Gal, Tomas) see Multiple criteria decision making, 97i:90009
- (Grossmann, Ignacio E.) see Global optimization in engineering design, 97f:90003

- (Guddat, Jürgen) see Parametric optimization and related topics, 97k:90005
- (Hanne, Thomas) see Multiple criteria decision making, 97i:90009
- (Harstad, R. M.) see Laboratory investigations of expectations in games: the Amsterdam papers, 97d:90007
- (Higle, J.) see Stochastic programming, algorithms and models, 97c:90005
- (Hunjak, T.) see Proceedings: Conference on Operational Research, 97d:90010
- (Hussaini, M. Y.) see Multidisciplinary design optimization, 97i:90008
- (Jeffrey, Richard C.) see Dynamics of norms, 97c:90002
- (Jongen, Hubertus Th.) see Parametric optimization and related topics, 97k:90005
- (Karabati, Selçuk) see Optimization applications in scheduling theory, 97f:90006
- (Kelly, James P.) see Meta-heuristics: theory & applications, 97a:90002
- (Korshunov, Aleksel D.) see Discrete analysis and operations research, 97c:90001
- (Kouvelis, Panagiotis) see Optimization applications in scheduling theory, 97f:90006
- (Kuipers, S. K.) see Methods and applications of economic dynamics, 97f:90005
- (Laporte, Gilbert) see Metaheuristics in combinatorial optimization, 97c:90004
- (Leyens, J.) see Special Issue: Constraint programming, 97h:90005
- (Martić, Ljubomir) see Proceedings: Conference on Operational Research, 97d:90010
- (Mazalov, Vladimir V.) see Game theory and applications, 97d:90006 and 97g:90005
- (McCormick, S. Thomas) see Integer programming and combinatorial optimization, 97k:90003
- (Muri, Almerico) see Computational issues in high performance software for nonlinear optimization, 97i:90006
- (Nazareth, J. L.) see Linear and nonlinear conjugate gradient-related methods, 97k:90004
- (Neralić, Luka) see Proceedings: Conference on Operational Research, 97d:90010
- (Nowakowski, Richard J.) see Games of no chance, 97h:90004
- (Nožićka, František) see Parametric optimization and related topics, 97k:90005
- (Olser, Geert Jan) see New trends in dynamic games and applications, 97d:90009
- (Osman, Ibrahim H.) see Meta-heuristics: theory & applications, 97a:90002 and Metaheuristics in combinatorial optimization, 97c:90004
- (Papathanassiou, Byron) see Conference: Operational Research, 97k:90002
- (Pardalos, Panos M.) see State of the art in global optimization, 97a:90004 and Solving combinatorial optimization problems in parallel, 97c:90003
- (Petrosyan, L. A.) see Game theory and applications, 97d:90006 and 97g:90005
- (Pirlot, Marc) see Special Issue: Constraint programming, 97h:90005
- (Plastria, Frank) see Special Issue: Constraint programming, 97h:90005
- (Queyranne, Maurice) see Integer programming and combinatorial optimization, 97k:90003
- (Schoonbeek, L.) see Methods and applications of economic dynamics, 97f:90005
- (Sen, Suvrajeet) see Stochastic programming, algorithms and models, 97c:90005
- (Skjums, Brian) see Dynamics of norms, 97c:90002
- (Sterken, E.) see Methods and applications of economic dynamics, 97f:90005
- (Still, Georg) see Parametric optimization and related topics, 97k:90005
- (Teghem, Jacques, Jr.) see FRANCOR, 97i:90007
- (Thompson, Gerald L.) see Computational economics, 97i:90005
- (Thompson, R. G.) see Extensions and new developments in data envelopment analysis, 97c:90003
- (Thore, Sten) see Computational economics, 97i:90005
- (Thrall, Robert M.) see Extensions and new developments in data envelopment analysis, 97c:90003
- (Toraldo, Gerardo) see Computational issues in high performance software for nonlinear optimization, 97i:90006
- (Twilt, Frank) see Parametric optimization and related topics, 97k:90005
- (Van Asbroeck, Ph.) see Special Issue: Constraint programming, 97h:90005
- (Verdegay, J. L.) see Fuzzy optimization, 97b:90003
- (Wallace, Stein W.) see Stochastic programming, algorithms and models, 97c:90005
- (Wanka, G.) see Multicriteria optimization and decision theory, 97d:90008
- (Yin, Gang George) see Recent advances in control and optimization of manufacturing systems, 97a:90003
- (Zhang, Qing) see Recent advances in control and optimization of manufacturing systems, 97a:90003
- (Zimmermann, Uwe T.) see Discrete optimization, 97c:90002

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- Amsterdam ★ Laboratory investigations of expectations in games: the Amsterdam papers. 97d:90007
- Approximation and computation in stochastic programming ★ Approximation and computation in stochastic programming. 97g:90004
- Austin, TX ★ Society of Computational Economics Conference. 97m:90002
- Berkeley, CA ★ Games of no chance. 97h:90004
- Breckenridge, CO ★ Meta-heuristics: theory & applications. 97a:90002
- Capri ★ Computational issues in high performance software for nonlinear optimization. 97i:90006
- Computational economics ★ Computational economics. 97i:90005
- Computational issues in high performance software for nonlinear optimization ★ Computational issues in high performance software for nonlinear optimization. 97i:90006
- Conference: High Performance Software for Nonlinear Optimization: Status and Perspectives ★ Computational issues in high performance software for nonlinear optimization. 97i:90006
- Integer Programming and Combinatorial Optimization ★ Integer programming and combinatorial optimization. 97k:90003
- Linear and Nonlinear Conjugate Gradient-related Methods ★ Linear and nonlinear conjugate gradient-related methods. 97k:90004
- Meta-heuristics ★ Meta-heuristics: theory & applications. 97a:90002
- Multicriteria Optimization and Decision Theory ★ Multicriteria optimization and decision theory. 97d:90008
- Multiple Criteria Decision Making ★ Multiple criteria decision making. 97i:90009
- Operational Research ★ Proceedings of the 6th International Conference on Operational Research. 97d:90010
- ★ The 3rd Balkan Conference of Operational Research. 97k:90002

Conference: (cont'd.)

- Parametric Optimization and Related Topics** ★ Parametric optimization and related topics. IV. 97k:90005
- Society of Computational Economics** ★ Society of Computational Economics Conference. 97m:90002
- State of the Art in Global Optimization** ★ State of the art in global optimization. (English summary) 97a:90004
- Discrete analysis and operations research** ★ Discrete analysis and operations research. 97c:90001
- Discrete and continuous structures in optimization** ★ Saitekika no sūri ni okero risan to renzoku kōzō. (Japanese) [Discrete and continuous structures in optimization] 97d:90005
- Discrete optimization** ★ Discrete optimization. 97c:90002
- Dynamics of norms** ★ The dynamics of norms. 97c:90002
- Enschede** ★ Parametric optimization and related topics. IV. 97k:90005
- Equilibrium with incomplete markets and an infinite state space** ★ Equilibrium with incomplete markets and an infinite state space. 97b:90002
- Extensions and new developments in data envelopment analysis** ★ Extensions and new developments in data envelopment analysis. 97c:90003
- FRANCORO** ★ FRANCORO. 97i:90007
- Fuzzy optimization** ★ Fuzzy optimization. 97b:90003
- Game theory and applications** ★ Game theory and applications. 97d:90006
- ★ Game theory and applications. II. 97g:90005
- Games of no chance** ★ Games of no chance. 97b:90004
- Global optimization in engineering design** ★ Global optimization in engineering design. 97f:90003
- Groningen** ★ Methods and applications of economic dynamics. 97f:90005
- Hagen** ★ Multiple criteria decision making. 97i:90009
- Hampton, VA** ★ Multidisciplinary design optimization. 97i:90008
- Holzhau** ★ Multicriteria optimization and decision theory. 97d:90008
- IFIP Workshop:**
- Stochastic Programming, Algorithms and Models** ★ Stochastic programming, algorithms and models. 97c:90005
- Integer programming and combinatorial optimization** ★ Integer programming and combinatorial optimization. 97k:90003
- Interior point methods in theory and practice** ★ Interior point methods in theory and practice. 97f:90004
- Iowa City, IA** ★ Interior point methods in theory and practice. 97f:90004
- Laboratory investigations of expectations in games: the Amsterdam papers** ★ Laboratory investigations of expectations in games: the Amsterdam papers. 97d:90007
- Lecture Notes in Computer Science** ★ Solving combinatorial optimization problems in parallel. 97e:90003
- ★ Integer programming and combinatorial optimization. 97k:90003
- Lecture Notes in Control and Information Sciences** ★ Recent advances in control and optimization of manufacturing systems. 97a:90003
- Lecture Notes in Economics and Mathematical Systems** ★ Multiple criteria decision making. 97i:90009
- Lillehammer** ★ Stochastic programming, algorithms and models. 97c:90005
- Linear and nonlinear conjugate gradient-related methods** ★ Linear and nonlinear conjugate gradient-related methods. 97k:90004
- Meeting:**
- Operational Research, FRANCORO** ★ FRANCORO. 97i:90007
- Meta-heuristics: theory & applications** ★ Meta-heuristics: theory & applications. 97a:90002
- Metaheuristics in combinatorial optimization** ★ Metaheuristics in combinatorial optimization. 97c:90004
- Methods and applications of economic dynamics** ★ Methods and applications of economic dynamics. 97f:90005
- Models and methods of optimization** ★ Модели и методы оптимизации. (Russian) [Models and methods of optimization] 97m:90003
- Mons** ★ FRANCORO. 97i:90007
- Multicriteria optimization and decision theory** ★ Multicriteria optimization and decision theory. 97d:90008
- Multidisciplinary design optimization** ★ Multidisciplinary design optimization. 97i:90008
- Multiple criteria decision making** ★ Multiple criteria decision making. 97i:90009
- New trends in dynamic games and applications** ★ New trends in dynamic games and applications. 97d:90009
- Optimization applications in scheduling theory** ★ Optimization applications in scheduling theory. 97f:90006
- Optimization theory in mathematical models** ★ Sūri moderu ni okeru saitekika riron. (Japanese) [Optimization theory in mathematical models] 97i:90010
- Parametric optimization and related topics** ★ Parametric optimization and related topics. IV. 97k:90005
- Princeton, NJ** ★ State of the art in global optimization. (English summary) 97a:90004
- Proceedings:**
- Conference on Operational Research** ★ Proceedings of the 6th International Conference on Operational Research. 97d:90010
- Recent advances in control and optimization of manufacturing systems** ★ Recent advances in control and optimization of manufacturing systems. 97a:90003
- Rovinj** ★ Proceedings of the 6th International Conference on Operational Research. 97d:90010
- Seattle, WA** ★ Linear and nonlinear conjugate gradient-related methods. 97k:90004
- Seminar:**
- Optimization in Theory and Practice** ★ Interior point methods in theory and practice. 97f:90004
- Solving combinatorial optimization problems in parallel** ★ Solving combinatorial optimization problems in parallel. 97e:90003
- Special Issue:**
- Constraint programming** ★ Special issue on constraint programming. 97h:90005
- Discrete optimization** ★ Discrete optimization. 97c:90002

Special Issue: (cont'd.)

- Equilibrium with incomplete markets and an infinite state space** ★ Equilibrium with incomplete markets and an infinite state space. 97b:90002
- Extensions and new developments in data envelopment analysis** ★ Extensions and new developments in data envelopment analysis. 97c:90003
- Fuzzy optimization** ★ Fuzzy optimization. 97b:90003
- Optimization applications in scheduling theory** ★ Optimization applications in scheduling theory. 97f:90006
- State of the art in global optimization** ★ State of the art in global optimization. (English summary) 97a:90004
- Stochastic programming, algorithms and models** ★ Stochastic programming, algorithms and models. 97c:90005
- Symposium:**
- Discrete and Continuous Structures in Optimization** ★ Saitekika no sūri ni okero risan to renzoku kōzō. (Japanese) [Discrete and continuous structures in optimization] 97d:90005
- Optimization Theory in Mathematical Models** ★ Sūri moderu ni okeru saitekika riron. (Japanese) [Optimization theory in mathematical models] 97i:90010
- Thessaloniki** ★ The 3rd Balkan Conference of Operational Research. 97k:90002
- Vancouver, BC** ★ Integer programming and combinatorial optimization. 97k:90003
- Well-posedness and stability of variational problems** ★ {Well-posedness and stability of variational problems}. 97m:90004
- Workshop:**
- Combinatorial Games** ★ Games of no chance. 97b:90004
- Experimental Economics** ★ Laboratory investigations of expectations in games: the Amsterdam papers. 97d:90007
- Methods and Applications of Economic Dynamics** ★ Methods and applications of economic dynamics. 97f:90005
- Multidisciplinary Design Optimization: State of the Art** ★ Multidisciplinary design optimization. 97i:90008
- Items with secondary classifications in 90-06**
- (Censor, Yair) *see* Recent developments in optimization theory and nonlinear analysis. 97j:00021
- (Chrétienne, Philippe) *see* Scheduling theory and its applications. 97g:90072
- (Coffman, Edward G., Jr.) *see* Scheduling theory and its applications. 97g:90072
- (Deza, Michel-Marie) *see* Combinatorics and computer science. 97k:00013
- (Dshalalow, Jewgeni H.) *see* Frontiers in queueing. 97i:60001
- (Euler, Reinhardt) *see* Combinatorics and computer science. 97k:00013
- (Howison, S. D.) *see* Mathematical models in finance. 97b:90010
- (Johnson, David Stiffler) *see* Cliques, coloring, and satisfiability. 97g:68003
- (Kelly, F. P.) *see* Mathematical models in finance. 97b:90010
- (Korshunov, Aleksel D.) *see* Discrete analysis. 97k:00015
- (Lawler, Eugene L.) *see* Models and algorithms for planning and scheduling problems. 97f:00019
- (Lenstra, Jan Karel) *see* Scheduling theory and its applications. 97g:90072
- (Liu, Zhen) *see* Scheduling theory and its applications. 97g:90072
- (Manoussakis, Yannis G.) *see* Combinatorics and computer science. 97k:00013
- (Möhring, Rolf H.) *see* Models and algorithms for planning and scheduling problems. 97f:00019
- (Montanari, Ugo) *see* Principles and practice of constraint programming. 97f:68006
- (Radermacher, Franz Josef) *see* Models and algorithms for planning and scheduling problems. 97f:00019
- (Reich, Simeon) *see* Recent developments in optimization theory and nonlinear analysis. 97j:00021
- (Rossi, Francesca) *see* Principles and practice of constraint programming. 97f:68006
- (Rossi, Peter E.) *see* Modelling stock market volatility. 97h:90012
- (van Schuppen, Jan) *see* Special Issue: Control and system theory. 97i:93007
- (Speranza, Maria Grazia) *see* Models and algorithms for planning and scheduling problems. 97f:00019
- (Trick, Michael A.) *see* Cliques, coloring, and satisfiability. 97g:68003
- (Wilmott, P.) *see* Mathematical models in finance. 97b:90010
- Items listed otherwise than by author**
- Brest** ★ Combinatorics and computer science. 97k:00013
- Cliques, coloring, and satisfiability** ★ Cliques, coloring, and satisfiability. 97g:68003
- Combinatorics and computer science** ★ Combinatorics and computer science. 97k:00013
- Conference:**
- Combinatorics and Computer Science** ★ Combinatorics and computer science. 97k:00013
- ★ Combinatorics and computer science. 97k:00013
- Contemporary Mathematics** ★ Recent developments in optimization theory and nonlinear analysis. 97j:00021
- Discrete analysis** ★ Дискретный анализ. (Russian) [Discrete analysis] 97k:00015
- Frontiers in queueing** ★ Frontiers in queueing. 97i:60001
- Jerusalem** ★ Recent developments in optimization theory and nonlinear analysis. 97j:00021
- Lecture Notes in Computer Science** ★ Combinatorics and computer science. 97k:00013
- Loveno di Menaggio** ★ Models and algorithms for planning and scheduling problems. 97f:00019
- Mathematical models in finance** ★ Mathematical models in finance. 97b:90010
- Meeting:**
- American Mathematical Society/Israel Mathematical Union** ★ Recent developments in optimization theory and nonlinear analysis. 97j:00021
- Modelling stock market volatility** ★ Modelling stock market volatility. 97h:90012
- Models and algorithms for planning and scheduling problems** ★ Models and algorithms for planning and scheduling problems. 97f:00019
- New Brunswick, NJ** ★ Cliques, coloring, and satisfiability. 97g:68003
- Obituary:**
- Lawler, Eugene L.** ★ Models and algorithms for planning and scheduling problems.

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Scheduling theory and its applications ★ Scheduling theory and its applications. 97g:90072

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Optimization and Nonlinear Analysis ★ Recent developments in optimization theory and nonlinear analysis. 97f:00021

Special Issue:

Control and system theory ★ Special issue on control and system theory. 97f:93007

Workshop:

Cliques, Coloring, and Satisfiability ★ Cliques, coloring, and satisfiability. 97g:68003

Models and Algorithms for Planning and Scheduling Problems ★ Models and algorithms for planning and scheduling problems. 97f:00019

90-08 Computational methods

Items with secondary classifications in 90-08

Coope, I. D. *see* Price, C. J. 97a:90100

Price, C. J. (with Coope, I. D.) Numerical experiments in semi-infinite programming. (English summary) 97a:90100

90Axx Mathematical economics {For econometrics, see 62P20.}

Sharkey, William W. Network models in economics. (see 97f:90025)

Items with secondary classifications in 90Axx

(Thompson, Gerald L.) *see* Computational economics, 97f:90005

(Thore, Sten) *see* Computational economics, 97f:90005

Items listed otherwise than by author

Computational economics ★ Computational economics. 97f:90005

90A05 Decision theory [see also 62Cxx, 90B50, 90D35]

Axelrod, Robert The evolution of strategies in the iterated prisoner's dilemma. (English summary) (see 97c:90002)

Bassan, Bruno (with Brezzi, Monica; Scarsini, Marco) Information in continuous time decision models with many agents. (English summary) 97g:90006

Battigalli, Pierpaolo Strategic rationality orderings and the best rationalization principle. (English summary) 97c:90006

Bella, Aimée (with Szidarovszky, Ferenc; Duckstein, Lucien) Algorithms for dynamic negotiation. (English summary)

Bodjanova, Slavka Approximation of fuzzy concepts in decision making. (English summary) 97g:90007

Bossert, Walter (with Nosal, Ed; Sadanand, Venkatraman) Bargaining under uncertainty and the monotone path solutions. (English summary) 97f:90007

Brafman, Ronen I. (with Tennenholtz, Moshe) On the foundations of qualitative decision theory. (English summary) (see 97g:68006)

Brams, Steven J. (with Taylor, Alan D.) ★ Fair division. (English summary) 97f:90007

Brezzi, Monica *see* Bassan, Bruno; et al. 97g:90006

Bustince Sola, Humberto Handling multicriteria fuzzy decision-making problems based on intuitionistic fuzzy sets. (English summary)

Castagnoli, E. (with Li Calzi, M.) Expected utility without utility. (English summary) 97m:90005

Chateaufort, Alain Ellsberg paradox intuition and Choquet expected utility. 97b:90006

— Decomposable capacities, distorted probabilities and concave capacities. (English summary) 97m:90006

Chen, Chie-bein (with Klein, Cerry M.) An efficient approach to solving fuzzy MADM problems. (English summary)

Chen, Shouyu Nonstructured decision making analysis and fuzzy optimum seeking theory for multiobjective systems. (English summary)

Chen, Ting¹ *see* Luo, Yun Feng; et al. 97b:90006. Shi, Bao Chang; et al. and Hu, Xin Sheng; et al.

Chiclana, F. (with Herrera, Francisco; Herrera-Viedma, E.; Poyatos, M. C.) A classification method of alternatives for multiple preference ordering criteria based on fuzzy majority. (English summary) 97g:90008

Clark, Stephen A. The random utility model with an infinite choice space. (English summary) 97a:90005

Covaliu, Z. Sequential diagrams and influence diagrams: a complementary relationship for modeling and solving decision problems. (English summary) (see 97f:62001)

Dombi, J. A general framework for the utility-based and outranking methods. (English summary) (see 97c:04009)

Duckstein, Lucien *see* Bella, Aimée; et al.

Fishburn, Peter C. Decision theory and discrete mathematics. (English summary) 97m:90007

— *see also* La Valle, Irving H., 97d:90011 and 97g:90014

Fujita, Toshiharu Fuzzy decision-making processes and optimal equations. (Japanese) (see 97d:90005)

Gersbach, Hans Risk and the value of information in irreversible decisions. (English summary) 97k:90006

Gil, Maria Angeles (with López-Díaz, Miguel) Fundamentals and Bayesian analyses of decision problems with fuzzy-valued utilities. (English summary) 97g:90009

Gilboa, Itzhak (with Schmeidler, David) Case-based optimization. (English summary) 97c:90008

— (with Schmeidler, David) Act similarity in case-based decision theory. (English summary) 97g:90010

Granat, Janusz (with Wierzbicki, Andrzej P.) Interactive specification of DSS user preferences in terms of fuzzy sets. (English summary)

Gretlein, Rodney (with Hamilton, Jonathan; Slutsky, Steven) To fight or not to fight? That is the question. (English summary) 97b:90004

Guh, Yuh-Yuan *see* Hon, Cheng-Chuang; et al. 97m:90008

Gul, Faruk Rationality and coherent theories of strategic behavior. (English summary) 97g:90011

Hamilton, Jonathan *see* Gretlein, Rodney; et al. 97b:90004

Heffetz, Aviad Comment on consensus without common knowledge. (English summary) 97g:90012

Hendon, Ebbe (with Jacobsen, Hans Jørgen; Sloth, Birgitte; Tranæs, Torben) The product of capacities and belief functions. (English summary) 97k:90007

Herrera, Francisco (with Herrera-Viedma, E.; Verdegay, J. L.) Direct approach processes in group decision making using linguistic OWA operators. (English summary) 97g:90013

— *see also* Chiclana, F.; et al. 97g:90008

Herrera-Viedma, E. *see* Chiclana, F.; et al. 97g:90008 and Herrera, Francisco; et al. 97g:90013

Hon, Cheng-Chuang (with Guh, Yuh-Yuan; Wang, Kou-Ming; Lee, E. Stanley) Fuzzy multiple attributes and multiple hierarchical decision making. (English summary) 97m:90008

Hu, Xin Sheng (with Zhou, Ji¹; Shi, Bao Chang; Chen, Ting¹) An approximation method for multiobjective decision making. II. Applications and numerical analysis. (Chinese. English and Chinese summaries)

— *see also* Shi, Bao Chang; et al.

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- (Olsder, Geert Jan) see New trends in dynamic games and applications, 97d:90009
- Pesch, H. J. see Lachner, R.; et al., (97d:90009)
- Pignon, J. P. see Neveu, D.; et al., (97d:90009)
- Pourtallier, Odile see Neveu, D.; et al., (97d:90009)
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- Raimondo, A. see Neveu, D.; et al., (97d:90009)
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92-XX Biology and other natural sciences, behavioral sciences

92-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 92-00

(Beale, Russell) *see* Handbook: Neural computation, 97d:68002

(Fiesler, Emilie) *see* Handbook: Neural computation, 97d:68002

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Handbook:

Neural computation ★ Handbook of neural computation, 97d:68002

92-01 Instructional exposition (textbooks, tutorial papers, etc.)

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Bartel, Hans-Georg ★ Mathematische Methoden in der Chemie. (German. German summary) [Mathematical methods in chemistry] 97i:92009

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Wu, Qiang *see* Liu, Gui Zhen, 97c:05149

92-02 Research exposition (monographs, survey articles)

Milton, John ★ Dynamics of small neural populations. (English summary) 97d:92001

Peterson, Stefan ★ Filtering and wavelet regression methods with application to exercise ECG. (English summary)

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(Summers, De Witt) *see* Mathematical approaches to biomolecular structure and dynamics, 97f:92001

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(Aldroubi, Akram) *see* Wavelets in medicine and biology, 97a:92001

(Hirschberg, Dan) *see* Combinatorial pattern matching, 97f:68002

(McCulloch, W. S.) *see* Brain processes, theories, and models, 97b:68004

(Mira-Mira, José) *see* Brain processes, theories, and models, 97b:68004

(Moreno-Díaz, Roberto) *see* Brain processes, theories, and models, 97b:68004

(Myers, Gene) *see* Combinatorial pattern matching, 97f:68002

(Unser, Michael) *see* Wavelets in medicine and biology, 97a:92001

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Brain processes, theories, and models ★ Brain processes, theories, and models, 97b:68004

Combinatorial pattern matching ★ Combinatorial pattern matching, 97f:68002

Conference:

McCulloch, Warren S. ★ Brain processes, theories, and models, 97b:68004

Laguna Beach, CA ★ Combinatorial pattern matching, 97f:68002

Las Palmas ★ Brain processes, theories, and models, 97b:68004

Lecture Notes in Computer Science ★ Combinatorial pattern matching, 97f:68002

Symposium:

Combinatorial Pattern Matching ★ Combinatorial pattern matching, 97f:68002

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Jiang, Tao¹ *see* Wang, Lusheng; et al., 97h:92012

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92Bxx Mathematical biology in general

92B05 General biology and biomathematics

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Cohen, R. J. *see* Chernyak, Y. B.; et al.

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92B15 General biostatistics [see also 62P10]

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- Items with secondary classifications in 92B99
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- ## 92Cxx Physiological, cellular and medical topics
- ### 92C05 Biophysics
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- Items with secondary classifications in 92C05
- Ball, Frank (with Davies, Sue) Clustering of bursts of openings in Markov and semi-Markov models of single channel gating. (English summary) 97j:60135
- Davies, Sue *see* Ball, Frank, 97j:60135
- Ermentrout, G. Bard (with Rinzel, John) Reflected waves in an inhomogeneous excitable medium. (English summary) 97h:92003
- Green, H. S. (with Triffet, T.) The cortex as a quantal Turing machine. (English summary) 97k:92042
- an der Heiden, Uwe Oscillations and chaos in nonlinear delay differential equations with applications to physiology. (English summary) *see* 97a:00029
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- ### 92C10 Biomechanics [see also 73P20]
- Cook, Christopher A. (with Koretz, Jane F.) The geometric theory of accommodation and presbyopia: new results and new insights.
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- Items with secondary classifications in 92C10
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92C15 Developmental biology, pattern formation

- Cruygen, Gerhard C. *see* Murray, J. D., 97f:92004
- Davidson, F. A. (with Rynne, Bryan P.) Local and global behaviour of steady-state solutions of the Sel'kov model. (English summary) 97g:92005
- Fracchia, F. David Visualizing two- and three-dimensional models of meristematic growth. (English summary) *see* 97b:68006
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- Wolkind, David J. *see* Stephenson, Laura E., 97a:92004
- Yan, Joseph G.-G. Formation and deformation of patterns through diffusion. (English summary) 97a:92005
- Zhu, Mei (with Murray, J. D.) Parameter domains for spots and stripes in mechanical models for biological pattern formation. (English summary) 97b:92003

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- Kari, Lila *see* Prusinkiewicz, Przemyslaw, 97g:68137
- Kigami, Jun Laplacians on self-similar sets and their spectral distributions. (*see* 97c:58004)
- Kopell, Nancy *see* Somers, David, 97b:34034
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- Prusinkiewicz, Przemyslaw (with Kari, Lila) Subapical bracketed L-systems. (English summary) 97g:68137
- Somers, David (with Kopell, Nancy) Waves and synchrony in networks of oscillators of relaxation and non-relaxation type. (English summary) 97b:34034

92C20 Neural biology

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- Fitzgibbon, W. E. (with Parrott, M. E.; You, Yun Cheng) Finite dimensionality and upper semicontinuity of the global attractor of singularly perturbed Hodgkin-Huxley systems. (English summary) 97f:35214
- Kelley, Walter Analytic approximations of travelling wave solutions. (English summary) 97b:35105
- Krassowska, Wanda *see* Neu, John C.; et al., 97k:35116
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- Treskov, S. A. (with Volokitin, E. P.) On existence of periodic orbits for the FitzHugh nerve system. (English summary) 97b:34043
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92C30 Physiology (general)

- an der Heiden, Uwe Oscillations and chaos in nonlinear delay differential equations with applications to physiology. (English summary) (*see* 97a:90029)
- Holden, A. V. (with Poole, M. J.; Tucker, J. V.) An algorithmic model of the mammalian heart: propagation, vulnerability, re-entry and fibrillation. (English summary) (*see* 97h:58005)
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- Items with secondary classifications in 92C30
- Chastres, V. *see* Gafflé, D.; et al., (97g:76002)
- Cobelli, Claudio *see* De Nicolao, Giuseppe; et al.
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- De Nicolao, Giuseppe (with Sparacino, Giovanni; Cobelli, Claudio) Nonparametric input estimation in physiological systems: problems, methods, and case studies. (English summary)
- Gafflé, D. (with Guillaume, Anne Ivy; Chastres, V.; Quandieu, P.) Modelling of the cerebrovascular system behavior under hypergravity conditions. (*see* 97g:76002)
- Guillaume, Anne Ivy *see* Gafflé, D.; et al., (97g:76002)
- Koretz, Jane F. *see* Cook, Christopher A.
- Maggelakis, S. A. (with Savakis, A. E.) A mathematical model of growth factor induced capillary growth in the retina. (English summary)
- Quandieu, P. *see* Gafflé, D.; et al., (97g:76002)
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- Chakraborty, Santabrata (with Mandal, P. K.) A nonlinear two-dimensional model of blood flow in an overlapping arterial stenosis subjected to body acceleration. (English summary) 97g:92006
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- Kim, Sunyoung (with Tawarson, R. P.) Computational techniques for inverse problems in kidney modeling. (English summary) 97c:92006
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- Black, Richard Anthony *see* Iudicello, F.; et al., (97g:76001)
- Collins, M. W. *see* Iudicello, F.; et al., (97g:76001)
- Dubini, G. (with Pietrabissa, R.; Montecchi, Franco Maria) A numerical method for the study of red blood cell motion in small vessels. (*see* 97g:76002)
- Henry, F. S. *see* Iudicello, F.; et al., (97g:76001)
- Iudicello, F. (with Collins, M. W.; Henry, F. S.; Jarvis, J. C.; Shortland, A.; Black, Richard Anthony; Salmons, S.) A review of modelling for arterial vessels—simplified ventricular geometries. (English summary) (*see* 97g:76001)
- Jarvis, J. C. *see* Iudicello, F.; et al., (97g:76001)
- Ku, David N. Blood flow in arteries. (English summary) (*see* 97g:76003)
- Montecchi, Franco Maria *see* Dubini, G.; et al., (97g:76002)
- Perktold, K. (with Rappitsch, G.) Mathematical modeling of local arterial flow and vessel mechanics. (*see* 97g:76002)
- Pietrabissa, R. *see* Dubini, G.; et al., (97g:76002)
- Rappitsch, G. *see* Perktold, K., (97g:76002)
- Salmons, S. *see* Iudicello, F.; et al., (97g:76001)
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92C40 Biochemistry, molecular biology

- Bracken, A. J. *see* Suzuki, M.; et al., 97e:92002
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- Nagai, Toshitaka *see* Mizutani, Yutaka, 97a:92006
- Nelson, Philip C. *see* Kamien, R. D.; et al.
- O'Hern, C. S. *see* Kamien, R. D.; et al.
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- Suzuki, M. (with McNabb, Alex; Bracken, A. J.) Membrane diffusion and flux response. (English summary) 97e:92002
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- Ball, Frank** (with Davies, Sue) Clustering of bursts of openings in Markov and semi-Markov models of single channel gating. (English summary) **97j:60135**
- Davidson, F. A.** (with Rynne, Bryan P.) Local and global behaviour of steady-state solutions of the Sel'kov model. (English summary) **97g:92005**
- Davies, Sue** see **Ball, Frank**, **97j:60135**
- Goldstein, Jerome A.** (with Tervo, Jouko) Existence of solutions for a system of nonlinear partial differential equations related to bioreactors. (English summary) **97m:35133**
- Herrero, Miguel A.** (with Velázquez, Juan J. L.) Singularity patterns in a chemotaxis model. **97g:35168**
- Janse van Rensburg, E. J.** (with Orlandini, Enzo; Summers, De Witt; Tesi, M. Carla; Whittington, Stuart G.) Topology and geometry of biopolymers. (English summary) **97k:92014**
- Jiang, Tao¹** (with Karp, Richard M.) Mapping clones with a given ordering or interleaving (extended abstract). (English summary) (see **97k:68011**)
- Kaplan, Haim** (with Shamir, Ron; Tarjan, Robert E.) Faster and simpler algorithm for sorting signed permutations by reversals. (English summary) **97k:92016**
- Karp, Richard M.** see **Jiang, Tao¹**, **(97k:68011)**
- Klapper, Isaac** see **Tabor, Michael**, **97m:53004**
- Mielke, Andreas** Transport in a fluctuating potential. (English summary) **97d:82075**
- More, Jorge J.** (with Wu, Zhijun) ϵ -optimal solutions to distance geometry problems via global continuation. (English summary) **97b:90107**
- Orlandini, Enzo** see **Janse van Rensburg, E. J.**; et al., **97k:92014**
- Pevzner, Pavel A.** see **Bafna, Vineet**, **97d:92007**
- Piña, E.** see **de la Selva, S. M. T.**, **97c:80015**
- Ruess, Wolfgang M.** (with Summers, William H.) Almost periodicity and stability for solutions to functional-differential equations with infinite delay. (English summary) **97m:34159**
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- Tabor, Michael** (with Klapper, Isaac) Dynamics of twist and writhe and the modeling of bacterial fibers. (English summary) **97m:53004**
- Tarjan, Robert E.** see **Kaplan, Haim**; et al., **97k:92016**
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- Tesi, M. Carla** see **Janse van Rensburg, E. J.**; et al., **97k:92014**
- Velázquez, Juan J. L.** see **Herrero, Miguel A.**, **97g:35168**
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- Wu, Zhijun** The effective energy transformation scheme as a special continuation approach to global optimization with application to molecular conformation. (English summary) **97e:90093**
- see also **More, Jorge J.**, **97b:90107**

92C45 Kinetics in biochemical problems (pharmacokinetics, enzyme kinetics, etc.) [see also 80A30]

- Arlotti, Luisa** (with Lachowicz, Mirosław) Qualitative analysis of a nonlinear integrodifferential equation modeling tumor-host dynamics. (English summary) **97g:92007**
- Gaylor, David W.** see **Zheng, Qi²**; et al.
- Lachowicz, Mirosław** see **Arlotti, Luisa**, **97g:92007**
- Lee, Jea-Young** Unidentifiable linear model analysis for medical models using derivative approach method. (English summary)
- Lutz, Werner K.** see **Zheng, Qi²**; et al.
- Zheng, Qi²** (with Lutz, Werner K.; Gaylor, David W.) A carcinogenesis model describing mutational events at the DNA adduct level. (English summary)

92C50 Medical applications (general)

- Maggelakis, S. A.** (with Savakis, A. E.) A mathematical model of growth factor induced capillary growth in the retina. (English summary)
- Savakis, A. E.** see **Maggelakis, S. A.**

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- Arlotti, Luisa** (with Lachowicz, Mirosław) Qualitative analysis of a nonlinear integrodifferential equation modeling tumor-host dynamics. (English summary) **97g:92007**
- Bajzer, Željko** (with Marušić, Miljenko; Vuk-Pavlović, Stanimir) Mathematical modeling of cellular interaction dynamics in multicellular tumor spheroids. (English summary) (see **97a:00029**)
- Chen, Yi Ping** see **Li, Yuan Jie**; et al.
- Cheng, Bi Da** see **Li, Yuan Jie**; et al.
- Gaylor, David W.** see **Zheng, Qi²**; et al.
- Holden, A. V.** (with Poole, M. J.; Tucker, J. V.) An algorithmic model of the mammalian heart: propagation, vulnerability, re-entry and fibrillation. (English summary) (see **97h:58005**)
- Kim, Sunyoung** (with Tewarson, R. P.) Computational techniques for inverse problems in kidney modeling. (English summary) **97c:92006**
- Lachowicz, Mirosław** see **Arlotti, Luisa**, **97g:92007**
- Li, Yuan Jie** (with Chen, Yi Ping; Lin, Shu Yuan; Cheng, Bi Da) A dynamical model for thrombosis. (Chinese. English and Chinese summaries)
- Lin, Shu Yuan** see **Li, Yuan Jie**; et al.
- Lutz, Werner K.** see **Zheng, Qi²**; et al.
- Marušić, Miljenko** see **Bajzer, Željko**; et al., **(97a:00029)**
- Poole, M. J.** see **Holden, A. V.**; et al., **(97h:58005)**
- Sleeman, B. D.** Solid tumour growth: a case study in mathematical biology. (see **97d:58005**)
- Tewarson, R. P.** see **Kim, Sunyoung**, **97c:92006**
- Tucker, J. V.** see **Holden, A. V.**; et al., **(97h:58005)**
- Vuk-Pavlović, Stanimir** see **Bajzer, Željko**; et al., **(97a:00029)**
- Zheng, Qi²** (with Lutz, Werner K.; Gaylor, David W.) A carcinogenesis model describing mutational events at the DNA adduct level. (English summary)

92C55 Tomography [see also 44A12, 65R10]

- Antyufeev, V. S.** (with Bondarenko, A. N.) X-ray tomography in scattering media. (English summary)
- Bjaalie, Jan G.** (with Dählen, Morten; Stensby, Trond Vidar) Surface modelling from biomedical data. (English summary) (see **97j:65004**)
- Bondarenko, A. N.** see **Antyufeev, V. S.**
- Castellanos Moreno, Arnulfo** A stochastic model for the evolution of cancerous tumors. (Spanish. English and Spanish summaries) **97j:92002**
- Ciulli, S.** (with Ispas, S.; Pidcock, M. K.) Anomalous thresholds and edge singularities in electrical impedance tomography. (English summary) **97k:92007**
- Dählen, Morten** see **Bjaalie, Jan G.**; et al., **(97j:65004)**
- Faber, Vance** (with Katsevich, Alexander I.; Ramm, Alexander G.) Inversion of cone-beam data and helical tomography. (English summary) **97g:92008**
- Henson, Van Emden** (with Limber, Mark A.; McCormick, Stephen F.; Robinson, Bruce T.) Multilevel image reconstruction with natural pixels. (English summary) **97b:92006**
- Ispas, S.** see **Ciulli, S.**; et al., **97k:92007**
- Katsevich, Alexander I.** see **Faber, Vance**; et al., **97g:92008**
- Kolaczynski, Eric D.** A wavelet shrinkage approach to tomographic image reconstruction. (English summary) **97j:92003**
- Limber, Mark A.** see **Henson, Van Emden**; et al., **97b:92006**
- Malladi, Ravikanth** (with Sethian, James A.) An $O(N \log N)$ algorithm for shape modeling. (English summary)
- McCormick, Stephen F.** see **Henson, Van Emden**; et al., **97b:92006**
- Meijer, Henk** (with Skiena, Steven S.) Reconstructing polygons from X-rays. (English summary) **97b:92006**
- Mottershead, C. T.** Maximum entropy tomography. (see **97k:00018**)
- Ober, Raimund J.** (with Ward, E. Sally) A system-theoretic formulation of NMR experiments. (English summary) **97j:92004**
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- Patch, S. K.** Diffuse tomography modulo Grassmann and Laplace. (English summary) **97k:92008**
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- Schempp, Walter** Geometric analysis and symbol calculus: Fourier transform magnetic resonance imaging and wavelets. (English summary) (see **97b:00017**)
- Sethian, James A.** see **Malladi, Ravikanth**
- Skiena, Steven S.** see **Meijer, Henk**, **97b:92006**
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- Besson, Guy** CT fan-beam parametrizations leading to shift-invariant filtering. (English summary) **97b:65155**
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- Katsevich, Alexander I.** Local reconstructions in exponential tomography. (English summary) **97e:44003**
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92D50 Animal behavior

- Edelstein-Keshet, Leah see Mogilner, Alexander; et al.
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92Exx Chemistry {For biochemistry, see 92C40.}

92E10 Molecular structure (graph-theoretic methods, methods of differential topology, etc.)

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- Baskin, I. I. see Skvortsova, M. I.; et al.
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- Araujo-García, Oswaldo Rafael see Randić, Milan; et al., **97m:11021**
- Bokanowski, O. (with Grébert, B.) Deformations of density functions in molecular quantum chemistry. (English summary) **97j:81399**
- Brunvoll, Jon see Cyvin, Sven J.; et al., **97c:05147**
- Cerf, Corinne see Liang, Chengzhi; et al., **97e:57008**
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- see also Zhang, Fu Ji; et al., **97k:05163**
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Dias, Jerry Ray Graph theoretical invariants and elementary subgraphs of polyhex and polypent/polyhex systems of chemical relevance. (English summary) **97c:05148**
Fowler, P. W. (with Tarnai, T.) Transition from spherical circle packing to covering: geometrical analogues of chemical isomerization. (English summary) **97g:52042**
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92E20 Classical flows, reactions, etc. [see also 80A30, 80A32]

- Arishtein, A. È.** (with Gol'danskii, V. I.) An exactly solvable model of irreversible particle-cluster aggregation. (Russian) **97g:92028**
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- Allegretto, W.** (with Xie, Hong; Yang, Shi Xin) Existence and uniqueness of solutions to an electrochemistry system. (English summary) **97b:35175**
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Collier, S. M. (with Merkin, J. H.; Scott, S. K.) Multistability, oscillations and travelling waves in a product-feedback autocatalator model. II. The initiation and propagation of travelling waves. (English summary) **97c:80016**
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Gutman, Ivan (with Nagypál, I.) Mathematical foundation of the Hessian response equilibrium concept. (English summary) **97c:80014**
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Hilhorst, D. (with van der Hout, R.; Peletier, L. A.) The fast reaction limit for a reaction-diffusion system. **97b:35101**
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Iida, Masato (with Ninomiya, Hirokazu) Asymptotic expansion of solutions to a chemical model with boundary reaction terms. **97c:35097**
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- Sommeijer, B. P.** (with Kok, Jan) Splitting methods for three-dimensional bio-chemical transport. (English summary)
Wilhelm, Thomas (with Heinrich, Reinhart) Mathematical analysis of the smallest chemical reaction system with Hopf bifurcation. (English summary) **97b:80005**
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92F05 Other natural sciences

92Gxx Social and behavioral sciences: methodology {For statistics, see 62-XX.}

92G05 Measurement theory

- Luce, R. Duncan** A correction to the paper: "The ongoing dialog between empirical science and measurement theory" [J. Math. Psych. **40** (1996), no. 1, 78–98].
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Boldi, Paolo Maximal chains and antichains in strongly Noetherian semiorders. (English summary) **97j:06002**
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Fishburn, Peter C. (with La Valle, Irving H.) Signed orders in linear and nonlinear utility theory. (English summary) **97j:90015**
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Macpherson, Dugald Sharply multiply homogeneous permutation groups, and rational scale types. (English summary) **97g:20003**
Narens, Louis A theory of ratio magnitude estimation. (English summary) **97m:92010**
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Tversky, Amos (with Wakker, Peter) Risk attitudes and decision weights. (English summary) **97b:90038**
Valeire, Antoine Formes et propriétés des indices d'inégalité entre proportions. (English and French summaries) [Forms and properties of indices of inequality between proportions] **97g:90038**
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92Hxx Mathematical sociology (including anthropology)

92H10 Models of societies, social and urban evolution

- Kushelman, Mark** Automaton model of relations between two countries. (English summary) **97g:92030**
Wang, Shu He Mathematical modeling of aggregative national power. (Chinese. English and Chinese summaries)

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- Christie, J. R.** (with Gopalsamy, K.; Li, Ji Bin) Chaos in sociobiology. (English summary) **97g:92009**
Gardin, Jean-Claude Calcul, informatique et raisonnement en archéologie. [Calculus, computer science and reasoning in archeology] (see **97a:03007**)
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92H20 Mathematical geography and demography

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- Hadele, Karl-Peter** (with Heesterbeek, Hans) Mathematische Demographie und Epidemiologie. [Mathematical demography and epidemiology] (see **97c:90028**)
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92H30 Social networks

- Hummel, Hans J.** (with Sodeur, Wolfgang) Structural analysis of social networks with respect to different levels of aggregation. (English and French summaries)
Saijders, Tom A. B. (with Spreen, Marinus) Segmentation in personal networks. (English and French summaries)
Sodeur, Wolfgang see **Hummel, Hans J.**
Spreen, Marinus see **Saijders, Tom A. B.**

Items with secondary classifications in 92H30

- Moses, Yoram** (with Tennenholtz, Moshe) Artificial social systems. (English summary) **97k:68160**
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92H35 Manpower systems [see also 90A50, 90B70]

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Tsaklidis, George M. The evolution of the attainable structures of a continuous time homogeneous Markov system with fixed size. (English summary) **97c:90057**

92H99 None of the above, but in this section

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92Jxx Mathematical psychology

92J10 Cognitive psychology

Ferber, Reginald Cognitive dynamics—dynamic cognition? (English summary) **97m:92009**
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Items with secondary classifications in 92J10

Green, H. S. *see* **Triffet, T.**, **97f:68036**

Triffet, T. (with **Green, H. S.**) Consciousness: computing the uncomputable. (English summary) **97f:68036**

92J30 Psychophysics and psychophysiology; perception

Addeev, L. V. (with **Ivanov, P. B.**) A mathematical model of scale perception. (English summary) **97c:92024**

Ivanov, P. B. *see* **Addeev, L. V.**, **97c:92024**

Narens, Louis A theory of ratio magnitude estimation. (English summary) **97m:92010**

Items with secondary classifications in 92J30

Roederer, Juan G. ★ The physics and psychophysics of music. (English summary) **97c:00027**

Suárez Araujo, Carmen Paz Novel neural network models for computing homothetic invariances: an image algebra notation. (English summary) **97f:68215**

92J40 Memory and learning [see also 68T05]

Feichtinger, Gustav (with **Novak, Andreas J.**) Persistent oscillations in a threshold adjustment model. (English summary) **97k:92043**

Kirby, Kevin G. Of memories, neurons, and rank-one corrections. **97j:92017**

Liu, De Rong *see* **Michel, Anthony N.**, **97f:92014**

Michel, Anthony N. (with **Liu, De Rong**) Theory and applications of sparsely interconnected feedback neural networks. (English summary) **97f:92014**

Novak, Andreas J. *see* **Feichtinger, Gustav**, **97k:92043**

Items with secondary classifications in 92J40

Bose, N. K. The theory of learning before and after Wiener. (English summary) (*see* **97j:00025**)

Gentz, Barbara A central limit theorem for the overlap in the Hopfield model. (English summary) **97j:60038**

Green, H. S. *see* **Triffet, T.**, **97f:68036**

Triffet, T. (with **Green, H. S.**) Consciousness: computing the uncomputable. (English summary) **97f:68036**

92Kxx Other social and behavioral sciences (mathematical treatment)

92K10 History, political science

Items with secondary classifications in 92K10

Gardin, Jean-Claude Calcul, informatique et raisonnement en archéologie. [Calculus, computer science and reasoning in archeology] (*see* **97a:03007**)

Kushelman, Mark Automaton model of relations between two countries. (English summary) **97g:92030**

93-XX Systems theory; control {For optimal control, see 49-XX.}

93-01 Instructional exposition (textbooks, tutorial papers, etc.)

- Balakrishnan, A. V. ★ Introduction to random processes in engineering. (English summary) 97c:93001
 Chea, Goong *see* Chen, Guanrong; et al. 97g:93001
 Chen, Guanrong (with Chen, Goong; Hsu, Shih-Hsun) ★ Linear stochastic control systems. (English summary) 97g:93001
 Hsu, Shih-Hsun *see* Chen, Guanrong; et al. 97g:93001

Items with secondary classifications in 93-01

- Mareels, Iven M. Y. (with Polderman, Jan Willem) ★ Adaptive systems. (English summary) 97g:93005
 Polderman, Jan Willem *see* Mareels, Iven M. Y. 97g:93005

93-02 Research exposition (monographs, survey articles)

- Abdallah, C. T. (with Heileman, G. L.; Georgiopoulos, M.; Hush, D. R.) An overview of neural network results for systems and control. (English summary)
 — *see also* Syrmos, Vassilis L.; et al. 97i:93003
 Afanas'ev, V. N. (with Kolmanovskii, V. B.; Nosov, V. R.) ★ Mathematical theory of control systems design. (English summary) 97i:93001
 Åström, Karl Johan Automatic control: a perspective. (English summary) 97b:93001
 Avdonin, S. A. (with Ivanov, Sergei Alekseevich) ★ Families of exponentials. (English summary) 97b:93002
 Cheremenskii, Aleksandr G. (with Fomin, V. N.) ★ Operator approach to linear control systems. (English summary) 97c:93001
 (Colonius, Fritz) *see* Häckl, Gerhard, 97i:93002
 Dorato, P. *see* Syrmos, Vassilis L.; et al. 97i:93003
 Dullerud, Geir E. ★ Control of uncertain sampled-data systems. (English summary) 97c:93002
 Feuer, Arle (with Goodwin, Graham C.) ★ Sampling in digital signal processing and control. (English summary)
 Fomin, V. N. *see* Cheremenskii, Aleksandr G. 97c:93001
 Fursikov, A. V. (with Imanuvilov, Oleg Yurievich) ★ Controllability of evolution equations. 97g:93002
 Gegov, Alexander ★ Distributed fuzzy control of multivariable systems. (English summary)
 Georgiopoulos, M. *see* Abdallah, C. T.; et al.
 Goodwin, Graham C. *see* Feuer, Arle
 Grigoriadis, Karolos M. *see* Syrmos, Vassilis L.; et al. 97i:93003
 Häckl, Gerhard ★ Reachable sets, control sets and their computation. (English and German summaries) 97i:93002
 Heileman, G. L. *see* Abdallah, C. T.; et al.
 Hush, D. R. *see* Abdallah, C. T.; et al.
 Imanuvilov, Oleg Yurievich *see* Fursikov, A. V. 97g:93002
 Isidori, Alberto ★ Nonlinear control systems. (English summary) 97g:93003
 — *see also* Trends in control, 97k:93001
 Ivanov, Sergei Alekseevich *see* Avdonin, S. A. 97b:93002
 Joshi, Suresh *see* Kelkar, Atul, 97g:93004
 Kelkar, Atul (with Joshi, Suresh) ★ Control of nonlinear multibody flexible space structures. 97g:93004
 Kolmanovskii, V. B. *see* Afanas'ev, V. N.; et al. 97i:93001
 Lancaster, Peter (with Rodman, Leiba) ★ Algebraic Riccati equations. 97b:93003
 Lima, Pedro U. (with Saridis, George N.) ★ Design of intelligent control systems based on hierarchical stochastic automata. (English summary)
 Maffezzoni, Claudio (with Magnani, Gianantonio) Practice and trends in control engineering. (English summary) 97c:93003
 Magnani, Gianantonio *see* Maffezzoni, Claudio, 97c:93003
 Mareels, Iven M. Y. (with Polderman, Jan Willem) ★ Adaptive systems. (English summary) 97g:93005
 (Milanese, Mario) *see* Bounding approaches to system identification, 97i:93004
 (Norton, John P.) *see* Bounding approaches to system identification, 97i:93004
 Nosov, V. R. *see* Afanas'ev, V. N.; et al. 97i:93001
 (Piet-Lahanier, Hélène) *see* Bounding approaches to system identification, 97i:93004
 Polderman, Jan Willem *see* Mareels, Iven M. Y. 97g:93005
 Popkov, Yu. S. ★ Macrosystems theory and its applications. 97c:93004
 Rodman, Leiba *see* Lancaster, Peter, 97b:93003
 Saridis, George N. *see* Lima, Pedro U.
 van der Schaft, Arjan J. ★ L_2 -gain and passivity techniques in nonlinear control. 97e:93002
 Sima, Vasile ★ Algorithms for linear-quadratic optimization. 97b:93004
 Smagina, E. M. ★ Вопросы анализа линейных многомерных объектов с использованием понятия нуля системы. (Russian. Russian summary) [Problems in the analysis of linear multidimensional plants using the concept of a zero of a system] 97a:93001
 Syrmos, Vassilis L. (with Abdallah, C. T.; Dorato, P.; Grigoriadis, Karolos M.) Static output feedback—a survey. (English summary) 97i:93003
 Tanizaki, Hisashi ★ Nonlinear filters. (English summary) 97g:93006
 (Walter, Eric) *see* Bounding approaches to system identification, 97i:93004
 Willems, Jan C. The behavioral approach to systems and control. (English summary) (see 97b:00020)
 Zemanian, Armen H. ★ Realizability theory for continuous linear systems. (English summary) 97a:93002

Items listed otherwise than by author

- Bounding approaches to system identification ★ Bounding approaches to system identification. 97i:93004

Conference:

- Control ★ Trends in control. 97k:93001
 Rome ★ Trends in control. 97k:93001
 Trends in control ★ Trends in control. 97k:93001

Items with secondary classifications in 93-02

- Bonivento, Claudio (with Zanasi, Roberto) Advances in variable structure control. (English summary) 97c:93027
 Butkovskii, A. G. Geometrical approach to the controlled differential systems (CDS). (English and Polish summaries)
 Chen, Goong *see* Chen, Guanrong; et al. 97g:93001
 Chen, Guanrong (with Chen, Goong; Hsu, Shih-Hsun) ★ Linear stochastic control systems. (English summary) 97g:93001
 — Conventional and fuzzy PID controllers: an overview. (English summary)
 Deng, Zhi Dong (with Zhang, Zai Xing; Sun, Zeng Qi) Learning control systems. (Chinese. English and Chinese summaries) 97d:93051
 Druzhinina, M. V. (with Nikiforov, V. O.; Fradkov, A. L.) Methods for the adaptive control of nonlinear objects with respect to output. (Russian. Russian summary) 97d:93046
 Fradkov, A. L. *see* Druzhinina, M. V.; et al. 97d:93046
 Freeman, Randy A. (with Kokotović, Petar V.) Approaches to robust nonlinear control. (see 97c:93003)
 Hsu, Shih-Hsun *see* Chen, Guanrong; et al. 97g:93001
 Kokame, Hideki (with Mori, Takehiro) Foundations of the theory of stability of polynomials in the parameter space. V. The stability radius. (Japanese)
 Kokotović, Petar V. *see* Freeman, Randy A. 97c:93003
 Kolmanovskii, V. B. (with Shaikhet, L. E.) ★ Control of systems with aftereffect. (English summary)
 (Kotov, V. N.) *see* Kolmanovskii, V. B.
 Krotov, V. F. ★ Global methods in optimal control theory. (English summary) 97a:49002
 Kutoyants, Yu. ★ Identification of dynamical systems with small noise. (English summary) 97b:93093
 Marro, Giovanni Multivariable regulation in geometric terms: old and new results. (English summary) 97i:93029
 Max-Plus Working Group Max-plus algebra and applications to system theory and optimal control. (English summary) 97d:93021
 Mori, Takehiro *see* Kokame, Hideki
 Nikiforov, V. O. *see* Druzhinina, M. V.; et al. 97d:93046
 Respondek, Witold Geometric methods in nonlinear control theory: a survey. (English summary) 97c:93008
 de la Sen, Manuel Non-periodic and adaptive sampling. A tutorial review. (English and Lithuanian summaries)
 Shaikhet, L. E. *see* Kolmanovskii, V. B.
 Sun, Zeng Qi *see* Deng, Zhi Dong; et al. 97d:93051
 Yamamoto, Yutaka A retrospective view on sampled-data-control systems. (English summary) 97m:93053
 Zanasi, Roberto *see* Bonivento, Claudio, 97c:93027
 Zhang, Zai Xing *see* Deng, Zhi Dong; et al. 97d:93051

93-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 93-03

- Jury, Eliahu I. From J. J. Sylvester to Adolf Hurwitz: a historical review. (English summary) 97i:01016
 Kallath, Thomas Norbert Wiener and the development of mathematical engineering. 97g:01022
 (Wiener, Norbert) *see* Kallath, Thomas, 97g:01022

93-04 Explicit machine computation and programs (not the theory of computation or programming)

- Artem'ev, S. S. (with Yakunin, M. A.; Mikhailichenko, I. G.; Shkurko, I. O.) ★ Диалоговая система "Динамика и Управление". (Russian. English and Russian summaries) [The dialogue system "Dynamics and Control"]
 Mikhailichenko, I. G. *see* Artem'ev, S. S.; et al.
 Shkurko, I. O. *see* Artem'ev, S. S.; et al.
 Yakunin, M. A. *see* Artem'ev, S. S.; et al.

93-06 Proceedings, conferences, collections, etc.

- (Balakrishnan, Venkataraman) *see* Linear matrix inequalities in control theory and applications, 97g:93008
 (Bonivento, Claudio) *see* Colloquium: Automatic Control, 97a:93003
 (Byrnes, Christopher I.) *see* Systems and control in the twenty-first century, 97g:93009
 (Cassandras, Christos G.) *see* Recent advances in discrete event systems, 97a:93004
 (Curtain, Ruth F.) *see* Infinite-dimensional systems, 97c:93009
 (Dai, Li Yi) *see* Recent advances in discrete event systems, 97a:93004
 (Datta, Biswa Nath) *see* Systems and control in the twenty-first century, 97g:93009
 (Garofalo, Franco) *see* Robust control via variable structure and Lyapunov techniques, 97c:93003
 (Gilliam, David S.) *see* Systems and control in the twenty-first century, 97g:93009
 (Ghelfo, Luigi) *see* Robust control via variable structure and Lyapunov techniques, 97c:93003
 (Ho, Yu-Chi) *see* Recent advances in discrete event systems, 97a:93004
 (Hunt, Kenneth J.) *see* Neural adaptive control technology, 97b:93005
 (Hurwitz, Adolf) *see* Stability theory, 97d:93001
 (Jeltsch, Rolf) *see* Stability theory, 97d:93001
 (Judd, Kevin) *see* Control and chaos, 97k:93002
 (Lopuch, Božena) *see* Distributed parameter systems: modelling and control, 97c:93007

- (Lozano Leal, Rogelio) *see* Adaptive control, nonlinear systems and robotics, 97c:93005
 (Malanowski, Kazimierz) *see* Distributed parameter systems: modelling and control, 97c:93007
 (Mansour, Mohamed) *see* Stability theory, 97d:93001
 (Marro, Giovanni) *see* Colloquium: Automatic Control, 97a:93003
 (Martin, Clyde Franklin) *see* Systems and control in the twenty-first century, 97g:93009
 (Mees, Alistair) *see* Control and chaos, 97k:93002
 (Morse, A. Stephen) *see* Control using logic-based switching, 97g:93007
 (Nahorski, Zbigniew) *see* Distributed parameter systems: modelling and control, 97c:93007
 (van Schuppen, Jan) *see* Special Issue: Control and system theory, 97i:93007
 (Shaked, Uri) *see* H_∞ and robust estimation, 97c:93008
 (Skelton, Robert E.) *see* Model validation for control design, 97i:93005
 (de Souza, Carlos E.) *see* H_∞ and robust estimation, 97c:93008
 (Stoorvogel, Anton A.) *see* Infinite-dimensional systems, 97c:93009
 (Teo, Kok Lay) *see* Control and chaos, 97k:93002
 (Townley, Stuart) *see* Distributed parameter systems: analysis, synthesis and applications, 97k:93003
 (Uosaki, Katsuji) *see* Symposium: Past, Present and Future of Stochastic Approaches, 97a:93005
 (Vincent, Thomas L.) *see* Control and chaos, 97k:93002
 (Zanasi, Roberto) *see* Colloquium: Automatic Control, 97a:93003
 (Zbikowski, Rafal) *see* Neural adaptive control technology, 97b:93005

Items listed otherwise than by author

- Adaptive control, nonlinear systems and robotics** ★ Adaptive control, nonlinear systems and robotics. 97c:93005
Ascona ★ Stability theory. 97d:93001
Benevento ★ Robust control via variable structure and Lyapunov techniques. 97c:93003
Beppu ★ Symposium: Past, Present and Future of Stochastic Approaches. (Japanese) 97a:93005
Birthday:
 Ho, Yu-Chi ★ Recent advances in discrete event systems. 97a:93004
 Block Island, RI ★ Control using logic-based switching. 97g:93007
 Bologna ★ Colloquium on Automatic Control. 97a:93003
 Cancun ★ Adaptive control, nonlinear systems and robotics. 97c:93005
Colloquium:
 Automatic Control ★ Colloquium on Automatic Control. 97a:93003
Conference:
 Centennial Hurwitz on Stability Theory ★ Stability theory. 97d:93001
 Mathematical Models in the Theory of Control Systems International Conference "Mathematical Models in the Theory of Control Systems". (Russian) 97c:93006
Conference: Modelling and Optimization of Distributed Parameter Systems with Applications to Engineering ★ Distributed parameter systems: modelling and control. 97c:93007
Control and chaos ★ Control and chaos. 97k:93002
Control using logic-based switching ★ Control using logic-based switching. 97g:93007
Distributed parameter systems: analysis, synthesis and applications ★ Distributed parameter systems: analysis, synthesis and applications. Part 1. 97k:93003
Distributed parameter systems: modelling and control ★ Distributed parameter systems: modelling and control. 97c:93007
 Glasgow ★ Neural adaptive control technology. 97b:93005
 H_∞ and robust estimation ★ H_∞ and robust estimation. 97c:93008
 Honolulu, HI ★ Control and chaos. 97k:93002
IEEE Symposium:
 New Directions in Control and Automation ★ New directions in control and automation. I. 97i:93006
IEEE Workshop:
 Robust Control via Variable Structure and Lyapunov Techniques ★ Robust control via variable structure and Lyapunov techniques. 97c:93003
Infinite-dimensional systems ★ Infinite-dimensional systems. 97c:93009
Lecture Notes in Control and Information Sciences ★ Colloquium on Automatic Control. 97a:93003
 — ★ Robust control via variable structure and Lyapunov techniques. 97c:93003
 — ★ Control using logic-based switching. 97g:93007
 Limassol ★ New directions in control and automation. I. 97i:93006
Linear matrix inequalities in control theory and applications ★ Linear matrix inequalities in control theory and applications. 97g:93008
Model validation for control design ★ Model validation for control design. 97i:93005
Neural adaptive control technology ★ Neural adaptive control technology. 97b:93005
New directions in control and automation ★ New directions in control and automation. I. 97i:93006
Recent advances in discrete event systems ★ Recent advances in discrete event systems. 97a:93004
Robust control via variable structure and Lyapunov techniques ★ Robust control via variable structure and Lyapunov techniques. 97c:93003
Special Issue:
 Control and system theory ★ Special issue on control and system theory. 97i:93007
 Distributed parameter systems: analysis, synthesis and applications ★ Distributed parameter systems: analysis, synthesis and applications. Part 1. 97k:93003
 H_∞ and robust estimation ★ H_∞ and robust estimation. 97c:93008
 Infinite-dimensional systems ★ Infinite-dimensional systems. 97c:93009
 Linear matrix inequalities in control theory and applications ★ Linear matrix inequalities in control theory and applications. 97g:93008
 Model validation for control design ★ Model validation for control design. 97i:93005
 Recent advances in discrete event systems ★ Recent advances in discrete event systems. 97a:93004
 St. Louis, MO ★ Systems and control in the twenty-first century. 97g:93009
Stability theory ★ Stability theory. 97d:93001
Symposium:
 Mathematical Theory of Networks and Systems ★ Systems and control in the twenty-first century. 97g:93009

Symposium: (cont'd.)

- Past, Present and Future of Stochastic Approaches** ★ Symposium: Past, Present and Future of Stochastic Approaches. (Japanese) 97a:93005
Systems and control in the twenty-first century ★ Systems and control in the twenty-first century. 97g:93009
Warsaw ★ Distributed parameter systems: modelling and control. 97c:93007
Workshop:
 Adaptive Control, Nonlinear Systems and Robotics ★ Adaptive control, nonlinear systems and robotics. 97c:93005
 Control and chaos ★ Control and chaos. 97k:93002
 Control Using Logic-based Switching ★ Control using logic-based switching. 97g:93007
 Neural Adaptive Control Technology ★ Neural adaptive control technology. 97b:93005

Items with secondary classifications in 93-06

- (Antsaklis, Panos J.) *see* Hybrid systems, 97b:68007
 (Brebba, C. A.) *see* Numerical methods in engineering simulation, 97a:76004
 (Corralaza, M.) *see* Numerical methods in engineering simulation, 97a:76004
 (Da Prato, Giuseppe) *see* Partial differential equation methods in control and shape analysis, 97m:00027
 (Gajardo, C.) *see* Numerical methods in engineering simulation, 97a:76004
 (Giannakis, Georgios B.) *see* Special Issue: Adaptive signal processing and higher order statistics, 97a:94001
 (Isidori, Alberto) *see* Trends in control, 97k:93001
 (Kohn, Wolf) *see* Hybrid systems, 97b:68007
 (Nerode, Anil) *see* Hybrid systems, 97b:68007
 (Sastri, S. Shankar) *see* Hybrid systems, 97b:68007
 (Zolésio, Jean-Paul) *see* Partial differential equation methods in control and shape analysis, 97m:00027

Items listed otherwise than by author

- Conference:**
 Control ★ Trends in control. 97k:93001
 Numerical Methods in Engineering and Applied Sciences ★ Numerical methods in engineering simulation. 97a:76004
Hybrid systems ★ Hybrid systems. II. 97b:68007
IFIP Conference:
 Control and Shape Optimization ★ Partial differential equation methods in control and shape analysis. 97m:00027
 Ithaca, NY ★ Hybrid systems. II. 97b:68007
 Lecture Notes in Computer Science ★ Hybrid systems. II. 97b:68007
 Mérida ★ Numerical methods in engineering simulation. 97a:76004
 Numerical methods in engineering simulation ★ Numerical methods in engineering simulation. 97a:76004
 Partial differential equation methods in control and shape analysis ★ Partial differential equation methods in control and shape analysis. 97m:00027
 Rome ★ Trends in control. 97k:93001
Special Issue:
 Adaptive signal processing and higher order statistics ★ Special issue on adaptive signal processing and higher order statistics. 97a:94001
 Trends in control ★ Trends in control. 97k:93001
Workshop:
 Hybrid Systems ★ Hybrid systems. II. 97b:68007

93Axx General

93A05 Axiomatic system theory

- Cutello, Vincenzo (with Montero de Juan, Francisco Javier) Equivalence and compositions of fuzzy rationality measures. (English summary) 97i:93008
 Hu, Qing Ping (with Li, Dan; Lin, Yi) Several problems on subsystems.
 Li, Dan *see* Hu, Qing Ping; et al.
 Lin, Yi *see* Hu, Qing Ping; et al.
 Montero de Juan, Francisco Javier *see* Cutello, Vincenzo, 97i:93008

Items with secondary classifications in 93A05

- Richmond, Samuel A. A simplification of the theory of simplicity. (English summary)

93A10 General systems

- Ansary, Omid (with Rahrooh, Alireza) An efficient approach to analysis of generalized systems. (English summary) 97c:93010
 Babak, S. F. (with Il'yasov, B. G.; Kaba'nov, Yu. S.) On one approach for constructing a structural systems theory. (Russian. Russian summary) 97i:93009
 Hu, Qing Ping (with Li, Dan; Lin, Yi) Some problems related to quotient systems. (English and Polish summaries) 97i:93010
 Il'yasov, B. G. *see* Babak, S. F.; et al., 97i:93009
 Kaba'nov, Yu. S. *see* Babak, S. F.; et al., 97i:93009
 Kondrat'ev, V. V. (with Utrobin, V. A.) Active restoration—solution of the indeterminacy problem. (Russian)
 Kukhtenko, A. I. Аналитическая теория логико-динамических систем. (Russian. Russian summary) [Analytic theory of logical-dynamical systems] 97j:93001
 Li, Dan *see* Hu, Qing Ping; et al., 97i:93010
 Lin, Yi *see* Hu, Qing Ping; et al., 97i:93010
 Rahrooh, Alireza *see* Ansary, Omid, 97c:93010
 Utrobin, V. A. *see* Kondrat'ev, V. V.

93A13 Hierarchical systems

- Gao, Long Chang** A class of systems with multihierarchical structure and their applications. (Chinese. English and Chinese summaries)
- Koumboulis, Fotis N.** (with Skarpetis, M. G.) Input-output decoupling for linear systems with nonlinear uncertain structure. (English summary) **97f:93011**
- (with Skarpetis, M. G.) Output feedback decoupling of linear systems with nonlinear uncertain structure. (English summary) **97f:93012**
- Skarpetis, M. G.** see **Koumboulis, Fotis N.**, **97f:93011** and **97f:93012**
- Wang, Li Xin** Modeling and control of hierarchical systems with fuzzy systems. (English summary)
- Wu, Cang Pu** see **Xie, San Ming**; et al.
- Xie, San Ming** (with Wu, Cang Pu; Xu, Zhongling) A new three-level hierarchical control algorithm for large-scale systems. (English and Chinese summaries)
- (with Wu, Cang Pu; Zhao, Chun Jun) A three-level hierarchical optimal control algorithm for a class of large-scale systems. (Chinese. English and Chinese summaries)
- Xu, Zhongling** see **Xie, San Ming**; et al.
- Zhao, Chun Jun** see **Xie, San Ming**; et al.

Items with secondary classifications in 93A13

- Caines, Peter E.** (with Wei, Yuan-Jun) Hierarchical hybrid control systems. (English summary) (see **97g:93007**)
- Glen, J. J.** (with Yang, C. L.) A model for promotion rate control in hierarchical manpower systems. (English summary)
- Wei, Yuan-Jun** see **Caines, Peter E.**, (see **97g:93007**)
- Yang, C. L.** see **Glen, J. J.**

93A14 Decentralized systems

- Cao, Jian** see **Hu, Shou Song**; et al.
- Finney, John D.** (with Heck, Bonnie S.) Matrix scaling for large-scale system decomposition. (English summary)
- Gao, Zhi Wei** (with Li, Guang Quan; Wang, Jiang; Wang, Xian Lai) Fixed modes in singular interconnected decentralized control systems with dynamic output feedback. (Chinese. English and Chinese summaries)
- Heck, Bonnie S.** see **Finney, John D.**
- Hu, Shou Song** (with Cao, Jian; Wang, Yong) Decentralized strong stability control for large-scale interconnected systems. (Chinese. English and Chinese summaries)
- Jiang, Dan-chi** (with Moore, John Barratt) A gradient flow approach to decentralized output feedback optimal control. (English summary) **97a:93006**
- Li, Guang Quan** see **Gao, Zhi Wei**; et al.
- Manousiouthakis, Vasilios** see **Sourlas, Dennis D.**, **97f:93001**
- Mizukami, Koichi** see **Zhang, Su Yu**; et al., **97g:93010**
- Moore, John Barratt** see **Jiang, Dan-chi**, **97a:93006**
- Pervozvanskii, Anatoli A.** Aggregation in mathematical models of manufacturing systems. (English summary) (see **97a:90029**)
- Scattolini, Riccardo** (with Schiavoni, Nicola) Decentralized control of multirate systems subject to arbitrary exogenous signals. (English summary)
- Schiavoni, Nicola** see **Scattolini, Riccardo**
- Sourlas, Dennis D.** (with Manousiouthakis, Vasilios) Best achievable decentralized performance. (English summary) **97f:93001**
- Wang, Jiang** see **Gao, Zhi Wei**; et al.
- Wang, Xian Lai** see **Gao, Zhi Wei**; et al.
- Wang, Yong** see **Hu, Shou Song**; et al.
- Wu, Han Sheng** see **Zhang, Su Yu**; et al., **97g:93010**
- Yang, Guang-Hong** (with Zhang, Si Ying) Decentralized robust control for interconnected systems with time-varying uncertainties. (English summary)
- You, Shao Peng** Decentralized self-tuning control. (Chinese. English and Chinese summaries)
- Zhang, Si Ying** see **Yang, Guang-Hong**
- Zhang, Su Yu** (with Mizukami, Koichi; Wu, Han Sheng) Decentralized robust control for a class of uncertain large-scale interconnected nonlinear dynamical systems. (English summary) **97g:93010**
- Zhao, Xiao Hui** Stability of interconnected discrete-time large-scale decentralized adaptive control systems. (Chinese. English and Chinese summaries)
- Zhao, Zhi Wu** Normalization of singular decentralized control systems. (Chinese. English and Chinese summaries)

Items with secondary classifications in 93A14

- Chen, Ying** see **Ni, Mao-Lin**
- Das, Nirod** see **Khorrami, Farshad**; et al., (see **97f:90027**)
- Gubaydullin, G. G.** (with Il'yasov, B. G.; Kabal'nov, Yu. S.) Optimizing multifunctional interconnected automatic control systems by the systemic approach methodology. (Russian. Russian summary)
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- Bortoff, Scott A. *see* Davison, Daniel E.
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- Janković, Mrdjan *see* Sepulchre, Rodolphe; et al., 97m:93067
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- Ball, Joseph A. (with van der Schaft, Arjan J.) J -inner-outer factorization, J -spectral factorization, and robust control for nonlinear systems. (English summary) 97b:93022
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- Huang, Xue Jun (with Wang, Shu Ning; Dai, Jian She) An algebraic approach in H_∞ system identification. (Chinese. English and Chinese summaries)
- Hwang, Chyi (with Lee, Ying-Chin) A new family of Routh approximants. (English summary) **97k:93052**
- Inaba, Hiroshi (with Wang, Weiben) Block decoupling for linear systems over rings. (English summary) **97b:93043**
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- Larin, V. B. Factorization of matrix polynomials and rational matrices. (Russian. Russian summary) **97j:93029**
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- Rosenthal, Joachim (with Wang, Xiaochang Alex) Output feedback pole placement with dynamic compensators. (English summary) **97f:93022**
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- Butkovskii, A. G. A geometric theory of control of systems with distributed parameters. (Russian. Russian summary) **97g:93023**
- Geometrical approach to the controlled differential systems (CDS). (English and Polish summaries)
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- Ball, Joseph A. (with Gohberg, Israel; Kaashoek, Marinus A.) A frequency response function for linear, time-varying systems. (English summary) **97h:93014**
- Curtain, Ruth F. Corrections to: "The Kalman-Yakubovich-Popov lemma for Pritchard-Salamon systems" [Systems Control Lett. **27** (1996), no. 1, 67-72; MR 97h:93032]. (English summary) **97i:93028**
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- Balafoutis, N. A. (with Gabitov, E. A.) Numerical algorithms for identifying the parameters of systems operating under normal conditions. (Russian. Russian summary)
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- Berthier, F. (with Diard, J.-P.; Pronzato, Luc; Walter, Eric) Identifiability and distinguishability concepts in electrochemistry. (English summary)
- Blazhenova-Mikulich, L. Yu. Identification of linear dynamic MIMO systems with a quasiperiodic input signal. (Russian. Russian summary)
- Brookfield, D. J. *see* Elhami, M. R.
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- IEEE Symposium on Information Theory ★ Proceedings 1995 IEEE International Symposium on Information Theory.

- Santa Barbara, CA ★ Advances in cryptology—CRYPTO '95. 97k:94002

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- Codes, designs and geometry ★ Codes, designs and geometry. 97f:00030b

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- ★ Codes, designs and geometry. 97f:00030b

94Axx Communication, information

94A05 Communication theory [see also 60G35, 90B12]

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 Aurenhammer, Franz (with Hagauer, Johann) Recognizing binary Hamming graphs in $O(n^2 \log n)$ time. (English summary) 97b:94005
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 Terdik, G. see Dawson, T.; et al., 97k:94003
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 Lee, Won Cheol see Pillai, S. Unnikrishnan
 Li, Xia (with Wong, Wing Shing) State estimation with communication constraints. (English summary) 97d:93090

- Luther, Wolfram** (with Otten, Werner) Numerical treatment of the first-order PLL equation with sinusoidal phase detector characteristic. (English summary) 97c:65213
- Malozemov, V. N.** (with Pevnyi, A. B.) Explicit solution of a filtering problem by means of elliptic functions. (Russian. English and Russian summaries) 97c:41015
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- Pillai, S. Umikrishna** (with Lee, Won Cheol) Parameterization of stable systems from partial impulse response sequences. (English summary)
- Ramanathan, Srinivas** see **Papadimitriou, Christos H.**; et al., 97b:90049
- Rangan, P. Venkat** see **Papadimitriou, Christos H.**; et al., 97b:90049
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- Suyari, Hiroki** see **Ohya, Masanori**, 97b:32068
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- Wu, Jian Hong** (with Xia, Hua Xing) Self-sustained oscillations in a ring array of coupled lossless transmission lines. (English summary) 97c:34148
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94A11 Application of orthogonal functions in communication

- Alekseev, V. G.** Polynomial trigonometric kernels and their application to the construction of low-frequency filters. (Russian. Russian summary)
- Bernardini, Riccardo** (with Kovačević, Jelena) Local orthogonal bases. I. Construction. (English summary) 97j:94002
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- Kovačević, Jelena** see **Bernardini, Riccardo**, 97j:94002 and 97j:94003
- Krichevskii, R. E.** (with Potapov, V. N.) Compression and restoration of square integrable functions. (English summary) 97k:94005
- Matviyenko, Gregory** see **Coifman, Ronald R.**; et al.
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- Dewson, T.** (with Irving, A. D.; Terdik, G.) Estimating of Volterra kernels in case of moment hierarchy and orthogonal representation. (English summary) 97k:94003
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- Maes, Stéphane H.** Signal analysis and synthesis with 1-D quasi-continuous wavelet transform. (English summary) (see 97j:94002)
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- Xiao, Hua Zhu** Time-frequency localization of signals in wavelet analysis. (Chinese. English and Chinese summaries)
- Zayed, Ahmed I.** New orthonormal sets and frames in the Paley-Wiener space. (English summary) 97b:42020

94A12 Signal theory (characterization, reconstruction, etc.)

- Beauzamy, Bernard** Reconstructing a signal from the knowledge of the norms of its multiples. (English summary) 97a:94002
- Blachman, Nelson M.** Random exploration of the three regular polytopes. (English summary) 97k:94006
- Caselles, Vicent** see **Dibos, Françoise**; et al., (97a:90029)
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- Clarkson, I. Vaughan L.** (with Perkins, Jane E.; Mareels, Iven M. Y.) Number-theoretic solutions to intercept time problems. (English summary) 97k:94007
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- Garg, Hari Krishna** (with Ko, C. C.; Lin, Kuo Yu; Liu, Haisheng) On algorithms for digital signal processing of sequences. (English summary) 97j:94004
- Hahn, Stefan L.** ★ Hilbert transforms in signal processing. 97k:94009
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- Lévy-Véhel, Jacques** Fractal approaches in signal processing. (English summary) 97g:94004
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- Maghras, E.** Restitution des coefficients d'ondelettes des signaux filtrés. [Recovery of wavelet coefficients of filtered signals] 97k:94002
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- Yan, Ning** see **Zhou, Xingwei**
- Zahouani, Hassan** Filtrage tridimensionnel des surfaces rugueuses. (English, French and Polish summaries) [Tridimensional filtration of rough surfaces] 97k:94013
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- Belitser, E. N.** (with Levit, B. Ya.) On minimax filtering over ellipsoids. (English summary) 97d:93085
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- Coifman, Ronald R.** see **Meyer, François G.**, (97j:94002)
- Di Natale, M.** see **Bacchelli, B.**, 97b:42003

- Dobson, David C.** (with Santosa, Fadil) Recovery of blocky images from noisy and blurred data. (English summary) **97c:68166**
- Estrada, Ricardo** Summability of cardinal series and of localized Fourier series. (English summary) **97c:42012**
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- Gazeau, Jean Pierre** (with Spiridonov, V. P.) Toward discrete wavelets with irrational scaling factor. (English summary) **97d:82079**
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- Hodel, A. Scott** (with Misra, Pradeep) Solution of underdetermined Sylvester equations in sensor array signal processing. (English summary) **97g:65091**
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- Mal'tsev, Arkadii Anatolievich** see Vanzha, A. V.; et al., **97j:78028**
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- Sandberg, Irwin W.** An inequality concerning nonexpansive mappings. (English summary) **97d:47076**
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- Swami, Ananthram** (with Mendel, Jerry M.) Lattice algorithms for recursive instrumental variable methods. (English summary) (see **97a:94001**)
- Sweldens, Wim** The lifting scheme: a custom-design construction of biorthogonal wavelets. (English summary) **97b:42060**
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- Varas S., Maria Leonor** Reconstruction of signals from multiscale edges. (English summary) **97b:65019**
- Wang, Le Yi** (with Lin, Lin) On the metric complexity of continuous-time systems. (English summary) **97e:93010**
- Weiss, Guido** see Hernández, Eugenio, **97i:42015**
- Yaroslavskii, L. P.** Local adaptive filters for image restoration and enhancement. (English summary) (see **97i:94002**)

94A13 Detection theory

- Ahlsvede, Rudolf F.** (with Balakirskii, V. B.) Identification by means of a random process. (Russian. Russian summary) **97i:94007**

- Balakirskii, V. B.** see Ahlsvede, Rudolf F., **97i:94007**
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- Abd-el-Barr, Mostafa** see Wang, Yuke; et al.
- Clarkson, I. Vaughan L.** (with Perkins, Jane E.; Mareels, Iven M. Y.) Number/theoretic solutions to intercept time problems. (English summary) **97k:94007**
- Mareels, Iven M. Y.** see Clarkson, I. Vaughan L.; et al., **97k:94007**
- McCrosky, Carl** see Wang, Yuke; et al.
- Perkins, Jane E.** see Clarkson, I. Vaughan L.; et al., **97k:94007**
- Wang, Yuke** (with Abd-el-Barr, Mostafa; McCrosky, Carl) An algorithm for total symmetric OBDD detection. (English summary)

94A14 Modulation and demodulation

- Hollmann, Henk D. L.** ★ Modulation codes. (English and Dutch summaries) **97g:94006**

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- (Giannakis, Georgios B.) see Special Issue: Adaptive signal processing and higher order statistics, **97a:94001**

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94A15 Information theory, general [see also 62B10]

- Amel'kin, V. A.** ★ Алгоритмы нумерации последовательностей, составленных из серий. (Russian. Russian summary) [Algorithms for the enumeration of sequences composed of series] **97g:94007**
- Bhaker, U. S.** see Hooda, D. S., **97k:94015**
- Csiszár, Imre** Maxent, mathematics, and information theory. (English summary) **97m:94003**
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- Liu, Wen¹** (with Yang, Wei Guo¹) The relative entropy density and some limit properties of arbitrary binary information sources. (Chinese. English summary) **97b:60052**
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- Lloyd, Seth** (with Slotine, Jean-Jacques E.) Information-theoretic tools for stable adaptation and learning. (English summary) **97d:93058**
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- Mastronarde, David N.** see Schneider, Thomas D.
- Ng, Sze-Kui** Information and system modelling. (English summary) **97b:81008**
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- Yang, Wei Guo¹** see Liu, Wen¹, **97a:60052** and **97b:60052**

94A17 Measures of information, entropy

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- Ersoy, Okan K. ★ Fourier-related transforms, fast algorithms and applications. (English summary) **97j:94010**
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- Honkala, Iiro (with Litsyn, S. N.) Generalizations of the covering radius problem in coding theory. (English summary) **97h:94020**
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- Levenshtein, V. I. Krawtchouk polynomials and universal bounds for codes and designs in Hamming spaces. (English summary) **97c:94015**
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- Maruta, Tatsuya On the non-existence of linear codes attaining the Griesmer bound. (English summary) **97h:94018**
- Mattson, H. F., Jr. see Cohen, Gérard Denis; et al., **97h:94019**
- Solomonov, V. Yu. Separating systems of conjunctions. (Russian. Russian summary) **97m:94051**
- Stinson, Douglas R. see Bierbrauer, Jürgen; et al., **97f:05028**
- Tietäväinen, A. see Litsyn, S. N., **97e:94013**

94B70 Error probability

- Blinovskii, V. M. An estimate for the probability of undetected error. (Russian. Russian summary) **97k:94091**
- Items with secondary classifications in 94B70
- Szpankowski, Wojciech On asymptotics of certain sums arising in coding theory. (English summary) **97b:11152**
- Wei, Victor Keh-Wei Generalized Hamming weights; fundamental open problems in coding theory. (English summary) **97g:94033**

94B75 Applications of the theory of convex sets and geometry of numbers (covering radius, etc.) [see also 11H31]

- Fu, Fang Wei On the improvements of Althöfer-Sillke inequality. (English and Chinese summaries) **97k:94092**
- Habsieger, Laurent Some new lower bounds for ternary covering codes. (English summary) **97g:94048**
- Honkala, Iiro (with Litsyn, S. N.; Tietäväinen, A.) On algebraic methods in covering radius problems. (English summary) **97m:94048**
- Hou, Xiang-dong The covering radius of $R(1, 9)$ in $R(4, 9)$. (English summary) **97g:94049**
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- Tietäväinen, A. see Honkala, Iiro; et al., **97m:94048**

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- Agrawal, Dakshi see Urbanke, Rüdiger, **97a:52028**
- Conway, John H. Sphere packings, lattices, codes, and greed. **97d:11108**
- Fu, Fang Wei (with Shen, Shi Yi) An upper bound for nonlinear constant weight codes. (Chinese. English and Chinese summaries) **97h:94010**
- Honkala, Iiro (with Litsyn, S. N.) Generalizations of the covering radius problem in coding theory. (English summary) **97h:94020**
- Litsyn, S. N. (with Tietäväinen, A.) Upper bounds on the covering radius of a code with a given dual distance. (English summary) **97e:94013**
- see also Honkala, Iiro, **97h:94020**
- Ostergård, Patrik R. J. The football pool problem. (English summary) **97k:94089**
- Shen, Shi Yi see Fu, Fang Wei, **97h:94010**
- Tietäväinen, A. see Litsyn, S. N., **97e:94013**
- Urbanke, Rüdiger (with Agrawal, Dakshi) A counterexample to a Voronoi region conjecture. (English summary) **97a:52028**

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- Taranovskii, Yu. V. On a binary vector of length n that is l -balanced with the largest number of binary vectors. (Russian) **97f:94018**
- Items with secondary classifications in 94B99
- Amel'kin, V. A. ★ Алгоритмы нумерации последовательностей, составленных из серий. (Russian. Russian summary) [Algorithms for the enumeration of sequences composed of series] **97g:94007**
- Blackman, Nelson M. Random exploration of the three regular polytopes. (English summary) **97k:94006**
- (Boyd, Collin) see Cryptography and coding, **97b:94002**
- Calude, Cristian (with Groza, Cristian) Kraft-Chaitin inequality revisited. (English summary) **97c:68070**
- Groza, Cristian see Calude, Cristian, **97c:68070**
- Hovanskii, Alexei Valerievich Methods for constructing almost Hadamard circulants and their possible applications. (Russian. English and Russian summaries) **97m:94050**
- Matveev, G. V. Primitive binary matrices. (Russian. English and Russian summaries) **97m:94050**
- Patron, Bruno Zigzag codes and z -free hulls. (English summary) **97m:68146**
- Schaller, Christian ★ Verallgemeinerungen der Stone'schen Sätze. (German) [Generalizations of Stone's theorems] **97b:06012**
- Wu, Xiaoli Optimal binary vector quantization via enumeration of covering codes. (English summary) **97m:94008**
- Yashchenko, V. V. On a propagation criterion for Boolean functions and on bent functions. (Russian. Russian summary) **97k:94102**

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- Cirencester ★ Cryptography and coding. **97b:94002**
- Conference: Cryptography and Coding ★ Cryptography and coding. **97b:94002**
- Cryptography and coding ★ Cryptography and coding. **97b:94002**
- Lecture Notes in Computer Science ★ Cryptography and coding. **97b:94002**

94Cxx Circuits, networks

94C05 Analytic circuit theory

- Anantharam, Venkat Mathematical theory of communication networks. (English summary) (see **97a:60006**)
- Calvert, Bruce D. Infinite nonlinear resistive networks, after Minty. (English summary) **97k:94093**
- Cel, J. A converse of Tellegen's theorem. (English summary) **97k:94094**
- Cheng, Zhengwu see Jiang, Ji Fa, **97m:94050**
- Chua, Leon O. see Wu, Chai Wah, **97b:94048**
- De-Michele, Leonede (with Soardi, Paolo M.) Nonlinear infinite networks with nonsymmetric resistances. (English summary) **97b:94047**
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- Forti, Mauro A note on neural networks with multiple equilibrium points. (English summary) **97g:94050**
- Jiang, Ji Fa (with Cheng, Zhengwu) Convergence of solutions for RLC-nonlinear networks with time-varying elements. (English summary) **97m:94050**
- Juang, Jong Existence for a matrix equation arising in microelectronics. (English summary) **97a:94010**
- Kocarev, L. M. (with Stojanovski, T. D.) Linear conjugacy of vector fields in Lur'e form. (English summary) **97e:94026**
- Lai, Ding Wen see Wang, Zheng Xian, **97j:94023**
- Lin, Zongli see Venkatasubramanian, Vaithianathan; et al., **97a:94011**
- Liu, Dong Hui see Xia, Cheng Quan; et al., **97m:94052**
- Recski, András Combinatorics in electrical engineering and statics. **97c:94020**
- Reidig, Günther Differential-algebraic equations and impasse points. (English summary) **97c:94021**
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- Soardi, Paolo M. see De-Michele, Leonede, **97b:94047**
- Solomonov, V. Yu. Separating systems of conjunctions. (Russian. Russian summary) **97m:94051**
- Stojanovski, T. D. see Kocarev, L. M., **97e:94026**
- Styan, George P. H. (with Subak-Sharpe, Gerald E.) Inequalities and equalities associated with the Campbell-Youla generalized inverse of the indefinite admittance matrix of resistive networks. (English summary) **97k:94095**
- Subak-Sharpe, Gerald E. see Styan, George P. H., **97k:94095**
- Tragoudas, Spyros Min-cut partitioning on underlying tree and graph structures. (English summary) **97j:94011**
- Venkatasubramanian, Vaithianathan (with Saberi, Ali; Lin, Zongli) On the validity of solutions and equilibrium points in a nonlinear network. (English summary) **97a:94011**
- Wang, Zheng Xian (with Lai, Ding Wen) The mechanism of eliminating harmonic resonance in power systems. (English summary) **97j:94023**
- Wolf, Denise M. (with Sanders, Seth R.) Multiparameter homotopy methods for finding dc operating points of nonlinear circuits. (English summary) **97k:94096**
- Wu, Chai Wah (with Chua, Leon O.) Synchronization in an array of linearly coupled dynamical systems. (English summary) **97c:94048**
- Xia, Cheng Quan (with Du, Min; Liu, Dong Hui) Analysis of the chaotic oscillations in a forced second-order nonlinear circuit using the piecewise linearization method. (Chinese. English and Chinese summaries) **97m:94052**
- Zemanian, Armen H. A maximum principle for node voltages in finitely structured, transfinite, electrical networks. (English summary) **97c:94022**
- Nonstandard electrical networks and the resurrection of Kirchhoff's laws. (English summary) **97k:94097**

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- Antsiferov, E. G. (with Tarasov, V. I.) On the solution of systems of quadratic equations that model the load distribution in electrical circuits. (Russian. Russian summary) **97b:94086**
- Bertsekas, Dimitri P. Thevenin decomposition and large-scale optimization. (English summary) **97d:94064**
- Chaiken, Seth Oriented matroid pairs, theory and an electric application. (English summary) **97e:05058**
- Chang, Tsu-Shuan see Moh, Teng-Sheng; et al.
- Eisenblegler, Dirk (with Kumar, Ramayya) An automata theory dedicated towards formal circuit synthesis. (English summary) (see **97k:68007**)
- Gallas, Zbigniew see Ogorzalek, Maciej J., **97a:00029**
- Grigor'ev, D. Yu. (with Karpinski, Marek) Computability of the additive complexity of algebraic circuits with root extracting. (English summary) **97j:68061**
- Gu, Jun see Puri, Rochir, **97b:68001**
- Guetta, D. see Kaplan, B. Z.
- Hakimi, S. Louis see Moh, Teng-Sheng; et al.
- Hayakawa, Tooru Interval analysis and the signs of the sensitivity of resistive networks. (Japanese) (see **97b:65003**)
- Hochbaum, Dorit S. (with Naor, Joseph) Approximation algorithms for network design problems on bounded subsets. (English summary) **97d:68157**
- Ishigami, Yoshiyasu The wide-diameter of the n -dimensional toroidal mesh. (English summary) **97c:68099**
- Kaplan, B. Z. (with Guetta, D.) Switching mode limit-cycle resonant oscillator as a relaxation oscillator. (English summary)

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- März, Roswitha (with Tischendorf, Caren) Recent results in solving index-2 differential-algebraic equations in circuit simulation. (English summary) 97m:65122
- Moh, Teng-Sheng (with Chang, Tsu-Shuan; Hakimi, S. Louis) Globally optimal floorplanning for a layout problem. (English summary)
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- Nishino, Tetsuro Complexity of negation-limited inversion networks. (Japanese. Japanese summary) (see 97d:68004)
- Ogorzalek, Maciej J. (with Galias, Zbigniew) Geometric invariants of chaotic attractors encountered in Chua's circuit. (English summary) (see 97a:00029)
- Puri, Ruchir (with Gu, Jun) A BDD SAT solver for satisfiability testing: an industrial case study. (English summary) (see 97b:68001)
- Sabadini, Nicoletta *see* Katis, P.; et al., 97m:18010
- Tarasov, V. I. *see* Antsiferov, E. G., 97b:90086
- Tischendorf, Caren *see* März, Roswitha, 97m:65122
- Unterreiter, Andreas Volterra integral equation models for semiconductor devices. (English summary) 97b:35177
- Walters, Robert F. C. *see* Katis, P.; et al., 97m:18010
- Ye, Miaolin (with Zhang, Ke Min) A new sufficient condition for D -circuits. (English and Chinese summaries) 97f:05108
- Zhang, Ke Min *see* Ye, Miaolin, 9 f:05108

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- Berdyshev, S. V. (with Fomin, A. N.) Characterization of minimal summaters of two and three variables. (Russian. English and Russian summaries) 97g:94051
- Chashkin, A. V. On the effect of negations on the complexity of the realization of partial monotone Boolean functions. (Russian. Russian summary) 97b:94049
- Dančik, Vlado Complexity of Boolean functions over bases with unbounded fan-in gates. (English summary) 97b:94050
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- Schneeweiss, Winfrid G. A necessary and sufficient criterion for the monotonicity of Boolean functions with deterministic and stochastic applications. (English summary) 97g:94053
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- Yashchenko, V. V. On a propagation criterion for Boolean functions and on bent functions. (Russian. Russian summary) 97k:94102
- Zadorozhnyuk, O. A. (with Rybko, A. I.) On a model of plane switching circuits. (Russian. Russian summary) 97a:94012
- Zakrevskii, A. D. Minimization of a system of partial Boolean functions in the class of Zhegalkin polynomials. (Russian. English and Russian summaries) 97b:94053
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- Amunzhaev, G. G. On the closure of the nonzero invariant Yablonskii class by the variable identification operation. (Russian) 97b:03076
- Beals, Robert *see* Tanaka, Katsuki; et al., 97f:68099
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- Chashkin, A. V. On the complexity of restrictions of Boolean functions. (Russian. Russian summary) 97b:68047
- Dietzfelbinger, Martin (with Kutylowski, Mirosław; Reischuk, Rüdiger) Feasible time-optimal algorithms for Boolean functions on exclusive-write parallel random-access machines. (English summary) 97k:68051
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- Takenaga, Yasuhiko (with Kaneda, Takayuki; Yajima, Shuzo) Variable ordering and the size of ordered binary decision diagrams representing threshold functions. (English summary) 97f:68098
- Tanaka, Katsuki (with Nishino, Tetsuro; Beals, Robert) Negation-limited circuit complexity of symmetric functions. (English summary) 97f:68099
- Vinokurov, S. F. (with Peryazev, N. A.) Polynomial decomposition of Boolean functions into images of homogeneous operators of nondegenerate functions. (Russian) 97k:06026
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- Wegener, Ingo On the complexity of encoding in analog circuits. (English summary) 97f:68077
- Yajima, Shuzo *see* Takenaga, Yasuhiko; et al., 97f:68098
- Yanushkevich, S. N. *see* Levashenko, V. G.; et al., 97f:68057
- Zolotykh, N. Yu. (with Shevchenko, V. N.) Deciphering of threshold functions of k -valued logic. (Russian. Russian summary) 97d:03031
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- Noskov, V. N. Converting circuits of functional elements into easily testable forms [translation of *Discrete analysis (Russian)*, 142–165, Izdat. Ross. Akad. Nauk Sibirsk. Otdel. Inst. Mat., Novosibirsk, 1994]. (English summary) 97b:68026
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- Tu, Hung-Yi *see* Hambusch, S. E., 97k:94103
- Items with secondary classifications in 94C30
- van Lint, Jacobus Hendricus Codes. 97e:94001
- Olariu, Stephan (with Pigli, E.; Zomaya, A. Y.) A time- and cost-optimal algorithm for channel routing. (English summary) (see 97k:68013)
- Pigli, E. *see* Olariu, Stephan; et al., (97k:68013)
- Zomaya, A. Y. *see* Olariu, Stephan; et al., (97k:68013)

94C99 None of the above, but in this section

- Liu, Yong Cai Neural networks for logic circuits. (Chinese. English and Chinese summaries)
- Items with secondary classifications in 94C99
- Klavžar, Sandi *see* Rugej, Jože
- Rugej, Jože (with Klavžar, Sandi) Distributed multicast routing in point-to-point networks. (English summary)
- Shakhtarin, B. I. Spectral analysis of phase autotuning of frequency in the presence of noise. (Russian. Russian summary) 97m:34105
- Traidi, Lorenzo Clutters and circuits. (English summary) 97k:05051

94D05 Fuzzy sets and logic [see also 03B52, 03E72, 04A72, 28E10]

- Vojvodić, Grđimir Some remarks on errors in the class of block-codes which correspond to L -valued fuzzy set. (English summary) 97m:94054

1991

MATHEMATICS

SUBJECT

CLASSIFICATION

Compiled in the Editorial Offices of MATHEMATICAL REVIEWS and ZENTRALBLATT FÜR MATHEMATIK

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1991 Mathematics Subject Classification

1991 Mathematics Subject Classification (MSC)

This is a corrected reprint of the 1991 MSC, which has been in use at MR starting with the January 1991 issue. The 1991 MSC was first printed in the Annual Index for 1990. Corrections and additions since then include the following: 11M36, 14J32, 17B69 and 53Z05 are new. Subsection 11Z50 has been relabeled 11Z05 and 73P05 has been relabeled 73P20. There are several entries in section 17 in which there have been small changes or additions in the description.

Instructions for using the 1991 Mathematics Subject Classification

These instructions apply uniformly to all fields listed. The main purpose of the classification is to help readers to find the items of present or potential interest to them as readily as possible—in MR, in Zbl, or anywhere else where this classification system is used. The review of a paper or book should be printed in the section where it will receive the broadest attention from all readers possibly interested in it—these include both people working in that area and people who are familiar with that area and apply its results and methods elsewhere (inside or outside of mathematics). It will be extremely useful for both readers and classifiers to familiarize themselves with the entire classification system and thus to become aware of all the classifications of possible interest to them.

Every paper or book reviewed in MR receives precisely one "primary" classification number, which is simply the number of the section in which the review of the item will be printed. This section should be the one that covers the principal contribution.

When a paper contains several principal contributions in different areas, the primary classification should cover the "most important" among them. A paper or book may receive one or several "secondary" classification numbers (or "cross-references") to cover any remaining principal contributions, ancillary results, motivation or origin of the problems discussed, intended or potential field of application, or other significant aspects worthy of notice.

The "primary" principal contribution is meant to be the one including the most important part of the work actually done in the paper. For example, a paper whose main overall content is the solution of a problem in graph theory, which arose in computer science and whose solution is (perhaps) at present only of interest to computer scientists, belongs primarily in 05C with a cross-reference in 68; conversely, a paper whose overall content lies mainly in computer science should receive a primary classification in 68, even if it makes heavy use of graph theory and proves several new graph-theoretic results along the way.

For an item with its primary classification in an "applied" section (68 through 94), it is recommended that a cross-reference be given to any "pure" mathematics section (00 through 65) to which the item being classified makes a contribution.

There are two types of cross-references given after many classifications in the list. The first type is of the form "[For A, see X]"; if this appears in section Y, it means that for contributions described by A one should usually assign the classification X, not Y. The other type of cross-reference merely points out related classifications; it is of the form "[See also ...]", "[See mainly ...]", etc., and the classifications listed in the brackets may, but need not, be added to the classification of a paper, or they may be used in place of the classification where the cross-reference is given. The classifier will have to judge which classification is the most appropriate for the paper at hand.

00-XX GENERAL

- 00-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 00-02 Research exposition (monographs, survey articles)
- 00Axx General and miscellaneous specific topics
- 00A05 General mathematics
- 00A06 Mathematics for nonmathematicians (engineering, social sciences, etc.)
- 00A07 Problem books
- 00A08 Recreational mathematics
- 00A15 Bibliographies
- 00A20 Dictionaries and other general reference works
- 00A22 Formularies
- 00A30 Philosophy of mathematics [See also 03A05]
- 00A35 Methodology of mathematics, didactics
- 00A69 General applied mathematics [For physics, see 00A79 and Sections 70 through 86]
- 00A71 Theory of mathematical modeling
- 00A72 General methods of simulation
- 00A73 Dimensional analysis
- 00A79 Physics (use more specific entries from Sections 70 through 86 when possible)
- 00A99 Miscellaneous topics
- 00Bxx Conference proceedings and collections of papers
- 00B05 Collections of abstracts of lectures
- 00B10 Collections of articles of general interest
- 00B15 Collections of articles of miscellaneous specific content
- 00B20 Proceedings of conferences of general interest
- 00B25 Proceedings of conferences of miscellaneous specific interest
- 00B30 Festschriften
- 00B50 Volumes of selected translations
- 00B55 Miscellaneous volumes of translations
- 00B60 Collections of reprinted articles [See also 01A75]

01-XX HISTORY AND BIOGRAPHY [See also the classification number -03 in the other sections]

- 01-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 01-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 01-02 Research exposition (monographs, survey articles)
- 01-06 Proceedings, conferences, collections, etc.
- 01-08 Computational methods
- 01Axx History of mathematics and mathematicians
- 01A05 General histories, source books
- 01A07 Ethnomathematics, general
- 01A10 Paleolithic, Neolithic
- 01A12 Indigenous cultures of the Americas
- 01A13 Other indigenous cultures (non-European)
- 01A15 Indigenous European cultures (pre-Greek, etc.)
- 01A16 Egyptian
- 01A17 Babylonian
- 01A20 Greek, Roman
- 01A25 China

- 01A27 Japan
- 01A29 Southeast Asia
- 01A30 Islam (Medieval)
- 01A32 India
- 01A35 Medieval
- 01A40 15th and 16th centuries, Renaissance
- 01A45 17th century
- 01A50 18th century
- 01A55 19th century
- 01A60 20th century
- 01A65 Contemporary
- 01A67 Future perspectives
- 01A70 Biographies, obituaries, personalia, bibliographies
- 01A72 Schools of mathematics
- 01A73 Universities
- 01A74 Other institutions and academies
- 01A75 Collected or selected works; reprintings or translations of classics [See also 00B60]
- 01A80 Sociology (and profession) of mathematics
- 01A99 Miscellaneous topics

03-XX MATHEMATICAL LOGIC AND FOUNDATIONS

- 03-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 03-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 03-02 Research exposition (monographs, survey articles)
- 03-03 Historical (must also be assigned at least one classification number from Section 01)
- 03-04 Explicit machine computation and programs (not the theory of computation or programming)
- 03-06 Proceedings, conferences, collections, etc.
- 03A05 Philosophical and critical [For philosophy of mathematics, see 00A30]
- 03Bxx General logic
- 03B05 Classical propositional logic
- 03B10 Classical first-order logic
- 03B15 Higher-order logic and type-theory
- 03B20 Subsystems of classical logic (including intuitionistic logic)
- 03B22 Abstract deductive systems
- 03B25 Decidability of theories and sets of sentences [See also 11U05, 12L05, 20F10]
- 03B30 Foundations and axiomatics of classical theories
- 03B35 Mechanization of proofs and logical operations [See also 68T15]
- 03B40 Combinatory logic and λ -calculus
- 03B45 Modal and tense logic [For provability logics, see also 03F40]
- 03B46 Relevance and entailment
- 03B48 Probability and inductive logic [See also 60A05]
- 03B50 Many-valued logic
- 03B52 Fuzzy logic [See also 94D05]
- 03B53 Paraconsistent logic
- 03B55 Intermediate logics
- 03B60 Other nonclassical logic

- 03B65 Logic of natural languages [See also 68S05, 92K20]
 03B70 Logic of programming [See also 68Q55, 68Q60]
 03B80 Other applications of logic
 03B99 None of the above, but in this section
03Cxx Model theory
 03C05 Equational classes, universal algebra [See also 08Axx]
 03C07 Basic properties of first-order languages and structures
 03C10 Quantifier elimination and related topics
 03C13 Finite structures
 03C15 Denumerable structures
 03C20 Ultraproducts and related constructions
 03C25 Model-theoretic forcing
 03C30 Other model constructions
 03C35 Categoricity and completeness of theories
 03C40 Interpolation, preservation, definability
 03C45 Stability and related concepts
 03C50 Models with special properties (saturated, rigid, etc.)
 03C52 Properties of classes of models
 03C55 Set-theoretic model theory
 03C57 Recursion-theoretic model theory [See also 03D45]
 03C60 Model-theoretic algebra [See also 08C10, 12Lxx, 13L05]
 03C62 Models of arithmetic and set theory [See also 03Hxx]
 03C65 Models of other mathematical theories
 03C68 Other classical first-order model theory
 03C70 Logic on admissible sets
 03C75 Other infinitary logic
 03C80 Logic with extra quantifiers and operators [See also 03B45]
 03C85 Second- and higher-order model theory
 03C90 Nonclassical models (Boolean-valued, sheaf, etc.)
 03C95 Abstract model theory
 03C99 None of the above, but in this section
03Dxx Recursion theory
 03D03 Thue and Post systems, etc.
 03D05 Automata and formal grammars in connection with logical questions [See also 68Qxx]
 03D10 Turing machines and related notions [See also 68Q05]
 03D15 Complexity of computation [See also 68Q15]
 03D20 Recursive functions and relations, subrecursive hierarchies
 03D25 Recursively enumerable sets and degrees
 03D30 Other degrees; reducibilities
 03D35 Undecidability and degrees of sets of sentences
 03D40 Word problems, etc. [See also 06B25, 08A50, 20F10]
 03D45 Theory of numerations, effectively presented structures [See also 03C57]
 03D50 Recursive equivalence types of sets and structures, isols
 03D55 Hierarchies
 03D60 Recursion theory on ordinals, admissible sets, etc.
 03D65 Higher-type and set recursion theory
 03D70 Inductive definability
 03D75 Abstract and axiomatic recursion theory
 03D80 Applications of recursion theory
 03D99 None of the above, but in this section
03Exx Set theory [See also 04-XX]
 03E05 Combinatorial set theory [See also 04A20]
 03E10 Ordinal and cardinal numbers [See also 04A10]
 03E15 Descriptive set theory [See also 04A15, 28A05, 54H05]
 03E20 Other classical set theory
 03E25 Axiom of choice and related propositions [See also 04A25]
 03E30 Axiomatics of classical set theory and its fragments
 03E35 Consistency and independence results
 03E40 Other aspects of forcing and Boolean-valued models
 03E45 Constructibility, ordinal definability, and related notions
 03E47 Other notions of set-theoretic definability
 03E50 Continuum hypothesis and Martin's axiom [See also 04A30, 54A25]
 03E55 Large cardinals
 03E60 Determinacy and related principles which contradict the axiom of choice
 03E65 Other hypotheses and axioms
 03E70 Nonclassical and second-order set theories
 03E72 Fuzzy sets [See mainly 04A72]
 03E75 Applications
 03E99 None of the above, but in this section
03Fxx Proof theory and constructive mathematics
 03F03 Proof theory, general
 03F05 Cut-elimination and normal-form theorems
 03F07 Structure of proofs
 03F10 Functionals in proof theory
 03F15 Recursive ordinals and ordinal notations
 03F20 Complexity of proofs
 03F25 Relative consistency and interpretations
 03F30 First-order arithmetic and fragments
 03F35 Second- and higher-order arithmetic and fragments [See also 03E30, 03E70]
 03F40 Gödel numberings in proof theory
 03F50 Metamathematics of constructive systems
 03F55 Intuitionistic mathematics
 03F60 Constructive and recursive analysis [See also 26E40, 46S30, 47S30]
 03F65 Other constructive mathematics [See also 26E40, 46S30, 47S30]
 03F99 None of the above, but in this section
03Gxx Algebraic logic
 03G05 Boolean algebras [See also 06Exx]
 03G10 Lattices and related structures [See also 06Bxx]
 03G12 Quantum logic [See also 81P10]
 03G15 Cylindric and polyadic algebras; relation algebras
 03G20 Łukasiewicz and Post algebras [See also 06D25, 06D30]
 03G25 Other algebras related to logic [See also 06F35]
 03G30 Categorical logic, topoi [See also 18B25]
 03G99 None of the above, but in this section
03Hxx Nonstandard models [See also 03C62]
 03H05 Nonstandard models in mathematics [See also 26E35, 28E05, 30G06, 46S20, 47S20, 54J05]
 03H10 Other applications of nonstandard models (economics, physics, etc.)
 03H15 Nonstandard models of arithmetic [See also 11U10, 12L15, 13L05]
 03H99 None of the above, but in this section
04-XX SET THEORY [See also 03Exx]
 04-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 04-01 Instructional exposition (textbooks, tutorial papers, etc.)
 04-02 Research exposition (monographs, survey articles)
 04-03 Historical (must also be assigned at least one classification number from Section 01)
 04-04 Explicit machine computation and programs (not the theory of computation or programming)
 04-06 Proceedings, conferences, collections, etc.
 04A03 Set algebra
 04A05 Relations, functions [See also 08A02]
 04A10 Ordinal and cardinal numbers; generalizations [See also 03E10]
 04A15 Descriptive set theory; Borel classifications, Suslin schemes, etc. [See also 03E15, 26A21, 28A05, 54H05]
 04A20 Combinatorial set theory [See also 03E05, 05A05]; filters
 04A25 Axiom of choice and equivalent propositions (Zorn's lemma, etc.) [See also 03E25]
 04A30 Continuum hypothesis, generalized continuum hypothesis [See also 03E50, 54A25]
 04A72 Fuzzy sets, fuzzy relations [See also 03E72, 94D05] (For fuzzy versions, see specific sections)
 04A99 Miscellaneous topics
05-XX COMBINATORICS {For finite fields, see 11Txx}
 05-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 05-01 Instructional exposition (textbooks, tutorial papers, etc.)
 05-02 Research exposition (monographs, survey articles)
 05-03 Historical (must also be assigned at least one classification number from Section 01)
 05-04 Explicit machine computation and programs (not the theory of computation or programming)
 05-06 Proceedings, conferences, collections, etc.
05Axx Classical combinatorial problems
 05A05 Combinatorial choice problems (subsets, representatives, permutations)
 05A10 Factorials, binomial coefficients, combinatorial functions [See also 11B65, 33Cxx]
 05A15 Exact enumeration problems, generating functions [See also 33Cxx, 33Dxx]
 05A16 Asymptotic enumeration
 05A17 Partitions of integers [See also 11P81, 11P82, 11P83]
 05A18 Partitions of sets
 05A19 Combinatorial identities
 05A20 Combinatorial inequalities
 05A30 q -calculus and related topics [See also 03Dxx]
 05A40 Umbral calculus
 05A99 None of the above, but in this section
05Bxx Designs and configurations {For applications of design theory, see 94C30}
 05B05 Block designs [See also 51E05, 62K10]
 05B07 Triple systems
 05B10 Difference sets (number-theoretic, group-theoretic, etc.) [See also 11B13]
 05B15 Orthogonal arrays, Latin squares, Room squares
 05B20 Matrices (incidence, Hadamard, etc.)
 05B25 Finite geometries [See also 51D20, 51Exx]
 05B30 Other designs, configurations [See also 51E30]
 05B35 Matroids, geometric lattices [See also 52B40, 90C27]
 05B40 Packing and covering [See also 11H31, 52C15, 52C17]

- 05B45 Tessellation and tiling problems [See also 52C20, 52C22]
 05B50 Polyominoes
 05B99 None of the above, but in this section
05Cxx Graph theory {For applications of graphs, see 68Q90, 68R10, 90C35, 94C15}
 05C05 Trees
 05C10 Topological graph theory, embedding [See also 57M15, 57M25]
 05C12 Distance in graphs
 05C15 Chromatic theory of graphs and maps
 05C20 Directed graphs (digraphs), tournaments
 05C25 Graphs and groups [See also 20F32]
 05C30 Enumeration of graphs and maps
 05C35 Extremal problems [See also 90C35]
 05C38 Paths and cycles [See also 90B10]
 05C40 Connectivity
 05C45 Eulerian and Hamiltonian graphs
 05C50 Graphs and matrices
 05C55 Generalized Ramsey theory
 05C60 Isomorphism problems (reconstruction conjecture, perfect graphs, etc.)
 05C65 Hypergraphs
 05C70 Factorization, matching, covering and packing
 05C75 Structural characterization of types of graphs
 05C78 Graph labelling (graceful graphs, bandwidth, etc.)
 05C80 Random graphs
 05C85 Graph algorithms [See also 68Q20, 68R10]
 05C90 Applications
 05C99 None of the above, but in this section
05Dxx Extremal combinatorics
 05D05 Extremal set theory
 05D10 Ramsey theory
 05D15 Transversal (matching) theory
 05D99 None of the above, but in this section
05Exx Algebraic combinatorics
 05E05 Symmetric functions
 05E10 Tableaux, representations of the symmetric group [See also 20C30]
 05E15 Combinatorial problems concerning the classical groups [See also 22E45, 33C80]
 05E20 Group actions on designs, geometries and codes
 05E25 Group actions on posets and homology groups of posets [See also 06A09]
 05E30 Association schemes, strongly regular graphs
 05E35 Orthogonal polynomials [See also 33C45, 33C50, 33D45]
 05E99 None of the above, but in this section
06-XX ORDER, LATTICES, ORDERED ALGEBRAIC STRUCTURES [See also 18B35]
 06-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 06-01 Instructional exposition (textbooks, tutorial papers, etc.)
 06-02 Research exposition (monographs, survey articles)
 06-03 Historical (must also be assigned at least one classification number from Section 01)
 06-04 Explicit machine computation and programs (not the theory of computation or programming)
 06-06 Proceedings, conferences, collections, etc.
06Axx Ordered sets
 06A05 Total order
 06A06 Partial order, general
 06A07 Combinatorics of partially ordered sets
 06A08 Shellable posets, Cohen-Macaulay posets [See also 52B20]
 06A09 Cohomology of posets [See also 05E25]
 06A12 Semilattices [See also 20M10]
 06A15 Galois correspondences, closure operators
 06A23 Complete lattices, completions
 06A99 None of the above, but in this section
06Bxx Lattices [See also 03G10]
 06B05 Structure theory
 06B10 Ideals, congruence relations
 06B15 Representation theory
 06B20 Varieties of lattices
 06B25 Free lattices, projective lattices, word problems [See also 03D40, 08A50, 20F10]
 06B30 Topological lattices, order topologies [See also 06F30, 22A26, 54F05, 54H12]
 06B35 Continuous lattices, generalizations, applications [See also 06B30, 06D10, 06F30, 18B35, 22A26, 68Q55]
 06B99 None of the above, but in this section
06Cxx Modular lattices, complemented lattices
 06C05 Modular lattices, Desarguesian lattices
 06C10 Semimodular lattices, geometric lattices
 06C15 Complemented lattices, orthocomplemented lattices
 06C20 Complemented modular lattices, continuous geometries
 06C99 None of the above, but in this section
06Dxx Distributive lattices
 06D05 Structure and representation theory
 06D10 Complete distributivity
 06D15 Pseudocomplemented lattices
 06D20 Heyting algebras [See also 03Gxx]
 06D25 Post algebras [See also 03G20]
 06D30 De Morgan algebras, Łukasiewicz algebras [See also 03G20]
 06D99 None of the above, but in this section
06Exx Boolean algebras (Boolean rings) [See also 03G05]
 06E05 Structure theory
 06E10 Chain conditions, complete algebras
 06E15 Stone space and related constructions
 06E20 Ring-theoretic properties [See also 16E50, 16G30]
 06E25 Boolean algebras with additional operations (diagonalizable algebras, etc.)
 06E30 Boolean functions [See also 94C10]
 06E99 None of the above, but in this section
06Fxx Ordered structures
 06F05 Ordered semigroups [See also 20Mxx]
 06F10 Noether lattices
 06F15 Ordered groups [See also 20F60]
 06F20 Ordered abelian groups, Riesz groups, ordered linear spaces [See also 46A40]
 06F25 Ordered rings, algebras, modules {For ordered fields, see 12J15; see also 13J25, 16W80}
 06F30 Topological lattices, order topologies [See also 06B30, 22A26, 54F05, 54H12]
 06F35 BCK-algebras, BCI-algebras [See also 03G25]
 06F99 None of the above, but in this section
08-XX GENERAL ALGEBRAIC SYSTEMS
 08-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 08-01 Instructional exposition (textbooks, tutorial papers, etc.)
 08-02 Research exposition (monographs, survey articles)
 08-03 Historical (must also be assigned at least one classification number from Section 01)
 08-04 Explicit machine computation and programs (not the theory of computation or programming)
 08-06 Proceedings, conferences, collections, etc.
08Axx Algebraic structures [See also 03C05]
 08A02 Relational systems, laws of composition
 08A05 Structure theory
 08A30 Subalgebras, congruence relations
 08A35 Automorphisms, endomorphisms
 08A40 Operations, polynomials, primal algebras
 08A45 Equational compactness
 08A50 Word problems [See also 03D40, 06B25, 20F10, 68R15]
 08A55 Partial algebras
 08A60 Unary algebras
 08A62 Finitary algebras
 08A65 Infinitary algebras
 08A70 Applications of universal algebra in computer science
 08A99 None of the above, but in this section
08Bxx Varieties
 08B05 Equational logic, Mal'cev (Mal'tsev) conditions
 08B10 Congruence modularity, congruence distributivity
 08B15 Lattices of varieties
 08B20 Free algebras
 08B25 Products, amalgamated products, and other kinds of limits and colimits [See also 18A30]
 08B26 Subdirect products and subdirect irreducibility
 08B30 Injectives, projectives
 08B99 None of the above, but in this section
08Cxx Other classes of algebras
 08C05 Categories of algebras [See also 18C05]
 08C10 Axiomatic model classes [See also 03Cxx, in particular 03C60]
 08C15 Quasivarieties
 08C99 None of the above, but in this section
11-XX NUMBER THEORY
 11-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 11-01 Instructional exposition (textbooks, tutorial papers, etc.)
 11-02 Research exposition (monographs, survey articles)
 11-03 Historical (must also be assigned at least one classification number from Section 01)
 11-04 Explicit machine computation and programs (not the theory of computation or programming)
 11-06 Proceedings, conferences, collections, etc.
11Axx Elementary number theory {For analogues in number fields, see 11R04}
 11A05 Multiplicative structure; Euclidean algorithm; greatest common divisors
 11A07 Congruences; primitive roots; residue systems
 11A15 Power residues, reciprocity

- 11A25 Arithmetic functions; related numbers; inversion formulas
 11A41 Primes
 11A51 Factorization; primality
 11A55 Continued fractions {For approximation results, see 11J70; see also 11K50, 30B70, 40A15}
 11A63 Radix representation; digital problems {For metric results, see 11K16}
 11A67 Other representations
 11A99 None of the above, but in this section
11Bxx Sequences and sets
 11B05 Density, gaps, topology
 11B13 Additive bases [See also 05B10]
 11B25 Arithmetic progressions [See also 11N13]
 11B34 Representation functions
 11B37 Recurrences {For applications to special functions, see 33-XX}
 11B39 Fibonacci and Lucas numbers and polynomials and generalizations
 11B50 Sequences (mod m)
 11B57 Farey sequences; the sequences $\{1^k, 2^k, \dots\}$
 11B65 Binomial coefficients; factorials; q -identities [See also 05A10, 05A30]
 11B68 Bernoulli and Euler numbers and polynomials
 11B73 Bell and Stirling numbers
 11B75 Other combinatorial number theory
 11B83 Special sequences and polynomials
 11B85 Automata sequences
 11B99 None of the above, but in this section
11Cxx Polynomials and matrices
 11C08 Polynomials [See also 13F20]
 11C20 Matrices, determinants [See also 15A36]
 11C99 None of the above, but in this section
11Dxx Diophantine equations [See also 11Gxx, 14Gxx]
 11D04 Linear equations
 11D09 Quadratic and bilinear equations
 11D25 Cubic and quartic equations
 11D41 Higher degree equations; Fermat's equation
 11D57 Multiplicative and norm form equations
 11D61 Exponential equations
 11D68 Rational numbers as sums of fractions
 11D72 Equations in many variables [See also 11P55]
 11D75 Diophantine inequalities [See also 11J25]
 11D79 Congruences in many variables
 11D85 Representation problems [See also 11P55]
 11D88 p -adic and power series fields
 11D99 None of the above, but in this section
11Exx Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63}
 11E04 Quadratic forms over general fields
 11E08 Quadratic forms over local rings and fields
 11E10 Forms over real fields
 11E12 Quadratic forms over global rings and fields
 11E16 General binary quadratic forms
 11E20 General ternary and quaternary quadratic forms; forms of more than two variables
 11E25 Sums of squares and representations by other particular quadratic forms
 11E39 Bilinear and Hermitian forms
 11E41 Class numbers of quadratic and Hermitian forms
 11E45 Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)
 11E57 Classical groups [See also 14Lxx, 20Gxx]
 11E70 K -theory of quadratic and Hermitian forms
 11E72 Galois cohomology of linear algebraic groups [See also 20G10]
 11E76 Forms of degree higher than two
 11E81 Algebraic theory of quadratic forms; Witt groups and rings [See also 19G12, 19G24]
 11E88 Quadratic spaces; Clifford algebras [See also 15A63, 15A66]
 11E95 p -adic theory
 11E99 None of the above, but in this section
11Fxx Discontinuous groups and automorphic forms [See also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx; for relations with quadratic forms, see 11E45]
 11F03 Modular and automorphic functions
 11F06 Structure of modular groups and generalizations; arithmetic groups [See also 20H05, 20H10, 22E40]
 11F11 Modular forms, one variable
 11F12 Automorphic forms, one variable
 11F20 Dedekind eta function, Dedekind sums
 11F22 Relationship to Lie algebras and finite simple groups
 11F25 Hecke-Petersson operators, differential operators (one variable)
 11F27 Theta series; Weil representation
 11F30 Fourier coefficients of automorphic forms
 11F32 Modular correspondences, etc.
 11F33 Congruences for modular and p -adic modular forms [See also 14G20, 22E50]
 11F37 Forms of half-integer weight; nonholomorphic modular forms
 11F41 Hilbert and Hilbert-Siegel modular groups and their modular and automorphic forms; Hilbert modular surfaces [See also 14J20]
 11F46 Siegel modular groups and their modular and automorphic forms
 11F55 Other groups and their modular and automorphic forms (several variables)
 11F60 Hecke-Petersson operators, differential operators (several variables)
 11F66 Dirichlet series and functional equations in connection with modular forms
 11F67 Special values of automorphic L -series, periods of modular forms, cohomology, modular symbols
 11F70 Representation-theoretic methods; automorphic representations over local and global fields
 11F72 Spectral theory; Selberg trace formula
 11F75 Cohomology of arithmetic groups
 11F80 Galois properties
 11F85 p -adic theory, local fields [See also 14G20, 22E50]
 11F99 None of the above, but in this section
11Gxx Arithmetic algebraic geometry (Diophantine geometry) [See also 11Dxx, 14Gxx, 14Kxx]
 11G05 Elliptic curves over global fields [See also 14H52]
 11G07 Elliptic curves over local fields [See also 14G20, 14H52]
 11G09 Drinfel'd modules; higher-dimensional motives, etc. [See also 14L05]
 11G10 Abelian varieties of dimension > 1 [See also 14Kxx]
 11G15 Complex multiplication and moduli of abelian varieties [See also 14K22]
 11G16 Elliptic and modular units [See also 11R27]
 11G18 Arithmetic aspects of modular and Shimura varieties [See also 14G35]
 11G20 Curves over finite and local fields [See also 14H25]
 11G25 Varieties over finite and local fields [See also 14G15, 14G20]
 11G30 Curves of arbitrary genus or genus $\neq 1$ over global fields [See also 14H25]
 11G35 Varieties over global fields [See also 14G25]
 11G40 L -functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture [See also 14G10]
 11G45 Geometric class field theory [See also 11R37, 14C35, 19F05]
 11G99 None of the above, but in this section
11Hxx Geometry of numbers {For applications in coding theory, see 94B75}
 11H06 Lattices and convex bodies [See also 11P21, 52C05, 52C07]
 11H16 Nonconvex bodies
 11H31 Lattice packing and covering [See also 05B40, 52C15, 52C17]
 11H46 Products of linear forms
 11H50 Minima of forms
 11H55 Quadratic forms (reduction theory, extreme forms, etc.)
 11H56 Automorphism groups of lattices
 11H60 Mean value and transfer theorems
 11H99 None of the above, but in this section
11Jxx Diophantine approximation, transcendental number theory [See also 11K60]
 11J04 Homogeneous approximation to one number
 11J06 Markov and Lagrange spectra and generalizations
 11J13 Simultaneous homogeneous approximation, linear forms
 11J17 Approximation by numbers from a fixed field
 11J20 Inhomogeneous linear forms
 11J25 Diophantine inequalities [See also 11D75]
 11J54 Small fractional parts of polynomials and generalizations
 11J61 Approximation in non-Archimedean valuations
 11J68 Approximation to algebraic numbers
 11J70 Continued fractions and generalizations [See also 11A55, 11K50]
 11J71 Distribution modulo one [See also 11K06]
 11J72 Irrationality; linear independence over a field
 11J81 Transcendence (general theory)
 11J82 Measures of irrationality and of transcendence
 11J83 Metric theory
 11J85 Algebraic independence; Gel'fond's method
 11J86 Linear forms in logarithms; Baker's method
 11J89 Transcendence theory of elliptic and abelian functions
 11J91 Transcendence theory of other special functions
 11J99 None of the above, but in this section
11Kxx Probabilistic theory; distribution modulo 1; metric theory of algorithms
 11K06 General theory of distribution modulo 1 [See also 11J71]
 11K16 Normal numbers, radix expansions, etc. [See also 11A63]
 11K31 Special sequences
 11K36 Well-distributed sequences and other variations
 11K38 Irregularities of distribution, discrepancy [See also 11Nxx]
 11K41 Continuous, p -adic and abstract analogues
 11K45 Pseudo-random numbers; Monte Carlo methods
 11K50 Metric theory of continued fractions [See also 11A55, 11J70]
 11K55 Metric theory of other algorithms and expansions; measure and Hausdorff dimension [See also 11N99, 28Dxx]
 11K60 Diophantine approximation [See also 11Jxx]
 11K65 Arithmetic functions [See also 11Nxx]

- 11K70 Harmonic analysis and almost periodicity
 11K99 None of the above, but in this section
 11Lxx **Exponential sums and character sums** (For finite fields, see 11Txx)
 11L03 Trigonometric and exponential sums, general
 11L05 Gauss and Kloosterman sums; generalizations
 11L07 Estimates on exponential sums
 11L10 Jacobsthal and Brewer sums; other complete character sums
 11L15 Weyl sums
 11L20 Sums over primes
 11L26 Sums over arbitrary intervals
 11L40 Estimates on character sums
 11L99 None of the above, but in this section
 11Mxx **Zeta and L-functions: analytic theory**
 11M06 $\zeta(s)$ and $L(s, \chi)$
 11M20 Real zeros of $L(s, \chi)$; results on $L(1, \chi)$
 11M26 Nonreal zeros of $\zeta(s)$ and $L(s, \chi)$; Riemann and other hypotheses
 11M35 Hurwitz and Lerch zeta functions
 11M36 Selberg zeta functions and regularized determinants
 11M41 Other Dirichlet series and zeta functions (For local and global ground fields, see 11R42, 11R52, 11S40, 11S45; for algebro-geometric methods, see 14G10; see also 11E45, 11F66, 11F70, 11F72)
 11M45 Tauberian theorems [See also 40E05]
 11M99 None of the above, but in this section
 11Nxx **Multiplicative number theory**
 11N05 Distribution of primes
 11N13 Primes in progressions [See also 11B25]
 11N25 Distribution of integers with specified multiplicative constraints
 11N30 Turán theory [See also 30Bxx]
 11N32 Primes represented by polynomials; other multiplicative structure of polynomial values
 11N35 Sieves
 11N36 Applications of sieve methods
 11N37 Asymptotic results on arithmetic functions
 11N45 Asymptotic results on counting functions for algebraic and topological structures
 11N56 Rate of growth of arithmetic functions
 11N60 Distribution functions associated with additive and positive multiplicative functions
 11N64 Other results on the distribution of values or the characterization of arithmetic functions
 11N69 Distribution of integers in special residue classes
 11N75 Applications of automorphic functions and forms to multiplicative problems [See also 11Fxx]
 11N80 Generalized primes and integers
 11N99 None of the above, but in this section
 11Pxx **Additive number theory; partitions**
 11P05 Waring's problem and variants
 11P21 Lattice points in specified regions
 11P32 Goldbach-type theorems; other additive questions involving primes
 11P55 Applications of the Hardy-Littlewood method [See also 11D85]
 11P81 Elementary theory of partitions [See also 05A17]
 11P82 Analytic theory of partitions
 11P83 Partitions; congruences and congruential restrictions
 11P99 None of the above, but in this section
 11Rxx **Algebraic number theory: global fields** (For complex multiplication, see 11G15)
 11R04 Algebraic numbers; rings of algebraic integers
 11R06 PV-numbers and generalizations; other special algebraic numbers
 11R09 Polynomials (irreducibility, etc.)
 11R11 Quadratic extensions
 11R16 Cubic and quartic extensions
 11R18 Cyclotomic extensions
 11R20 Other abelian and metabelian extensions
 11R21 Other number fields
 11R23 Iwasawa theory
 11R27 Units and factorization
 11R29 Class numbers, class groups, discriminants
 11R32 Galois theory
 11R33 Integral representations related to algebraic numbers; Galois module structure of rings of integers [See also 20C10]
 11R34 Galois cohomology [See also 12Gxx, 16H05, 19A31]
 11R37 Class field theory
 11R39 Langlands-Weil conjectures, nonabelian class field theory [See also 11Fxx, 22E55]
 11R42 Zeta functions and L-functions of number fields [See also 11M41, 19F27]
 11R44 Distribution of prime ideals [See also 11N05]
 11R45 Density theorems
 11R47 Other analytic theory [See also 11Nxx]
 11R52 Quaternion and other division algebras: arithmetic, zeta functions
 11R54 Other algebras and orders, and their zeta and L-functions [See also 11S45, 16H05, 16Kxx]
 11R56 Adèle rings and groups
 11R58 Arithmetic theory of algebraic function fields [See also 14-XX]
 11R65 Class groups and Picard groups of orders
 11R70 K-theory of global fields [See also 19Fxx]
 11R80 Totally real and totally positive fields [See also 12J15]
 11R99 None of the above, but in this section
 11Sxx **Algebraic number theory: local and p-adic fields**
 11S05 Polynomials
 11S15 Ramification and extension theory
 11S20 Galois theory
 11S23 Integral representations
 11S25 Galois cohomology [See also 12Gxx, 16H05]
 11S31 Class field theory; p-adic formal groups [See also 14L05]
 11S37 Langlands-Weil conjectures, nonabelian class field theory [See also 11Fxx, 22E50]
 11S40 Zeta functions and L-functions [See also 11M41, 19F27]
 11S45 Algebras and orders, and their zeta functions [See also 11R52, 11R54, 16H05, 16Kxx]
 11S70 K-theory of local fields [See also 19Fxx]
 11S80 Other analytic theory (analogues of beta and gamma functions, p-adic integration, etc.)
 11S85 Other nonanalytic theory
 11S99 None of the above, but in this section
 11Txx **Finite fields and commutative rings (number-theoretic aspects)**
 11T06 Polynomials
 11T22 Cyclotomy
 11T23 Exponential sums
 11T24 Other character sums and Gauss sums
 11T30 Structure theory
 11T55 Arithmetic theory of polynomial rings over finite fields
 11T71 Algebraic coding theory; cryptography
 11T99 None of the above, but in this section
 11Uxx **Connections with logic**
 11U05 Decidability [See also 03B25]
 11U07 Ultraproducts [See also 03C20]
 11U09 Model theory [See also 03Cxx]
 11U10 Nonstandard arithmetic [See also 03H15]
 11U99 None of the above, but in this section
 11Yxx **Computational number theory** [See also 11-04]
 11Y05 Factorization
 11Y11 Primality
 11Y16 Algorithms; complexity [See also 68Q25]
 11Y35 Analytic computations
 11Y40 Algebraic number theory computations
 11Y50 Computer solution of Diophantine equations
 11Y55 Calculation of integer sequences
 11Y60 Evaluation of constants
 11Y65 Continued fraction calculations
 11Y70 Values of arithmetic functions; tables
 11Y99 None of the above, but in this section
 11Z05 **Miscellaneous applications of number theory**
 12-XX **FIELD THEORY AND POLYNOMIALS**
 12-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 12-01 Instructional exposition (textbooks, tutorial papers, etc.)
 12-02 Research exposition (monographs, survey articles)
 12-03 Historical (must also be assigned at least one classification number from Section 01)
 12-04 Explicit machine computation and programs (not the theory of computation or programming)
 12-06 Proceedings, conferences, collections, etc.
 12Dxx **Real and complex fields**
 12D05 Polynomials: factorization
 12D10 Polynomials: location of zeros (algebraic theorems) (For the analytic theory, see 26C10, 30C15)
 12D15 Fields related with sums of squares (formally real fields, Pythagorean fields, etc.) [See also 11Exx]
 12D99 None of the above, but in this section
 12Exx **General field theory**
 12E05 Polynomials (irreducibility, etc.)
 12E10 Special polynomials
 12E12 Equations
 12E15 Skew fields, division rings [See also 11R52, 11R54, 11S45, 16Kxx]
 12E20 Finite fields (field-theoretic aspects)
 12E25 Hilbertian fields; Hilbert's irreducibility theorem
 12E99 None of the above, but in this section
 12Fxx **Field extensions**
 12F05 Algebraic extensions
 12F10 Separable extensions, Galois theory
 12F12 Inverse Galois theory
 12F15 Inseparable extensions
 12F20 Transcendental extensions
 12F99 None of the above, but in this section

- 12Gxx Homological methods (in field theory)**
 12G05 Galois cohomology [See also 13A20, 16H05]
 12G10 Cohomological dimension
 12G99 None of the above, but in this section
12Hxx Differential and difference algebra
 12H05 Differential algebra [See also 13Nxx]
 12H10 Difference algebra [See also 39Axx]
 12H20 Abstract differential equations [See also 34Gxx]
 12H25 p -adic differential equations [See also 11S80, 14G20, 34Gxx]
 12H99 None of the above, but in this section
12Jxx Topological fields
 12J05 Normed fields
 12J10 Valued fields
 12J12 Formally p -adic fields
 12J15 Ordered fields
 12J17 Topological semifields
 12J20 General valuation theory
 12J25 Non-Archimedean valued fields [See also 30G06, 32P05, 46S10, 47S10]
 12J27 Krasner-Tate algebras [See mainly 32P05; see also 46S10, 47S10]
 12J99 None of the above, but in this section
12Kxx Generalizations of fields
 12K05 Near-fields [See also 16Y30]
 12K10 Semifields [See also 16Y60]
 12K99 None of the above, but in this section
12Lxx Connections with logic
 12L05 Decidability [See also 03B25]
 12L10 Ultraproducts [See also 03C20]
 12L12 Model theory [See also 03C60]
 12L15 Nonstandard arithmetic [See also 03H15]
 12L99 None of the above, but in this section
12Y05 Computational aspects of field theory and polynomials
- 13-XX COMMUTATIVE RINGS AND ALGEBRAS**
 13-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 13-01 Instructional exposition (textbooks, tutorial papers, etc.)
 13-02 Research exposition (monographs, survey articles)
 13-03 Historical (must also be assigned at least one classification number from Section 01)
 13-04 Explicit machine computation and programs (not the theory of computation or programming)
 13-06 Proceedings, conferences, collections, etc.
13Axx General commutative ring theory
 13A02 Graded rings [See also 16W50]
 13A05 Divisibility
 13A10 Radical theory
 13A15 Ideals; multiplicative ideal theory
 13A18 Valuations and their generalizations
 13A20 Brauer groups [See also 12Gxx, 16H05]
 13A30 Associated graded rings of ideals (Rees ring, form ring) and related topics
 13A35 Characteristic p methods (Frobenius endomorphism) and reduction to characteristic p [See also 13Mxx]
 13A50 Invariant theory [See also 14D25]
 13A99 None of the above, but in this section
13Bxx Ring extensions and related topics
 13B02 Extension theory
 13B05 Galois theory (commutative rings)
 13B10 Morphisms and derivations
 13B15 Ramification theory
 13B21 Integral dependence
 13B22 Integral closure; integrally closed rings, related rings (Japanese, etc.)
 13B24 Going up; going down; going between
 13B25 Polynomials over commutative rings
 13B30 Quotients and localization
 13B35 Completion [See also 13J10]
 13B40 Étale extensions and Henselization; Artin approximation [See also 13J15, 14B12]
 13B99 None of the above, but in this section
13Cxx Theory of modules and ideals
 13C05 Structure, classification theorems
 13C10 Projective and free modules and ideals [See also 18G05, 19A13]
 13C11 Injective and flat modules and ideals [See also 18G05]
 13C12 Torsion modules and ideals
 13C13 Other special types
 13C14 Cohen-Macaulay modules [See also 13H10]
 13C15 Dimension theory, depth, related rings (catenary, etc.)
 13C20 Class groups
 13C40 Linkage, complete intersections and determinantal ideals [See also 14M12]
 13C99 None of the above, but in this section
- 13Dxx (Co)homological methods**
 13D02 Syzygies
 13D03 (Co)homology of commutative rings and algebras
 13D05 (Co)homological dimension [See also 18G20]
 13D10 Deformations and infinitesimal methods [See also 14B12, 14D15, 16S80, 32Gxx]
 13D15 Grothendieck groups, K -theory [See also 14C35, 18F30, 19-XX]
 13D25 Complexes
 13D30 Torsion theory [See also 13C12, 18E40]
 13D40 Hilbert-Samuel functions and Poincaré series
 13D45 Local cohomology [See also 14B15]
 13D99 None of the above, but in this section
13Exx Chain conditions, finiteness conditions
 13E05 Noetherian rings and modules
 13E10 Artinian rings and modules, finite-dimensional algebras
 13E15 Rings and modules of finite generation or presentation
 13E99 None of the above, but in this section
13Fxx Arithmetic rings and other special rings [See also 12-XX]
 13F05 Dedekind and Prüfer rings and their generalizations
 13F07 Euclidean rings and generalizations
 13F10 Principal ideal rings
 13F15 Factorial rings, unique factorization domains [See also 14M05]
 13F20 Polynomial rings and ideals [See also 11C08]
 13F25 Formal power series rings [See also 13J05]
 13F30 Valuation rings
 13F40 Excellent rings
 13F45 Seminormal rings
 13F50 Rings with straightening laws, Hodge algebras
 13F99 None of the above, but in this section
13G05 Integral domains
13Hxx Local rings and semilocal rings
 13H05 Regular local rings
 13H10 Special types (Cohen-Macaulay, Gorenstein, Buchsbaum, etc.) [See also 14M05]
 13H15 Multiplicity theory and related topics
 13H99 None of the above, but in this section
13Jxx Topological rings and modules [See also 16W60, 16W80]
 13J05 Power series rings [See also 13F25]
 13J07 Analytical algebras and rings [See also 32B05]
 13J10 Complete rings, completion [See also 13B35]
 13J15 Henselian rings [See also 13B40]
 13J20 Global topological rings
 13J25 Ordered rings [See also 06F25]
 13J99 None of the above, but in this section
13K05 Witt vectors and related rings
13L05 Applications of logic to commutative algebra [See also 03Cxx, 03Hxx]
13Mxx Finite commutative rings {For number-theoretic aspects, see 11Txx}
 13M05 Structure
 13M10 Polynomials (commutative rings)
 13M99 None of the above, but in this section
13Nxx Differential algebra [See also 12H05, 14F10]
 13N05 Modules of differentials [See also 16S32]
 13N10 Rings of differential operators [See also 16S32, 32C38]
 13N99 None of the above, but in this section
13Pxx Computational aspects of commutative algebra [See also 68Q40]
 13P05 Polynomials, factorization [See also 12Y05]
 13P10 Polynomial ideals, Gröbner bases
 13P99 None of the above, but in this section
- 14-XX ALGEBRAIC GEOMETRY**
 14-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 14-01 Instructional exposition (textbooks, tutorial papers, etc.)
 14-02 Research exposition (monographs, survey articles)
 14-03 Historical (must also be assigned at least one classification number from Section 01)
 14-04 Explicit machine computation and programs (not the theory of computation or programming)
 14-06 Proceedings, conferences, collections, etc.
14Axx Foundations
 14A05 Relevant commutative algebra [See also 13-XX]
 14A10 Varieties
 14A15 Schemes
 14A20 Generalizations (algebraic spaces, motifs)
 14A22 Noncommutative algebraic geometry; algebraic supervarieties [See also 14M30, 32C11, 58A50]
 14A25 Elementary questions
 14A99 None of the above, but in this section
14Bxx Local theory [See also 32Sxx]
 14B05 Singularities [See also 14E15, 14H20, 32Sxx, 58C27]
 14B07 Deformations of singularities [See also 14D15, 32Sxx]
 14B10 Infinitesimal methods [See also 13D10]

- 14B12 Local deformation theory, Artin approximation, etc. [See also 13B40, 13D10]
- 14B15 Local cohomology [See also 13D45, 32C36]
- 14B20 Formal neighborhoods
- 14B99 None of the above, but in this section
- 14Cxx Cycles and subschemes**
- 14C05 Parametrization (Chow and Hilbert schemes)
- 14C10 Equivalence relations
- 14C15 Rational equivalence rings
- 14C17 Intersection theory
- 14C20 Divisors, linear systems, invertible sheaves
- 14C21 Pencils, nets, webs [See also 53A60]
- 14C22 Picard groups
- 14C25 Algebraic cycles
- 14C30 Transcendental methods, Hodge theory [See also 14D07, 32G20, 32J25, 32S35], Hodge conjecture
- 14C34 Torelli problem [See also 32G20]
- 14C35 Applications of methods of algebraic K -theory [See also 14F05, 19Exx]
- 14C40 Riemann-Roch theorems [See also 19E20, 19L10]
- 14C99 None of the above, but in this section
- 14Dxx Families, fibrations**
- 14D05 Structure of families (Picard-Lefschetz, Picard-Fuchs theory, etc.)
- 14D07 Variation of Hodge structures
- 14D10 Arithmetic ground fields (finite, local, global)
- 14D15 Formal methods; deformations [See also 13D10, 14B07, 16S80, 32Gxx]
- 14D20 Algebraic moduli problems, moduli of vector bundles {For analytic moduli problems, see 32G13}
- 14D22 Fine and coarse moduli spaces
- 14D25 Geometric invariants [See also 14L30]
- 14D99 None of the above, but in this section
- 14Exx Mappings and correspondences**
- 14E05 Rational maps, birational correspondences
- 14E07 Birational automorphisms, Cremona group and generalizations [See also 32G20]
- 14E09 Automorphisms [See also 14J50, 14L27]
- 14E10 General correspondences
- 14E15 Global theory of singularities, resolution [See also 14B05, 32S20, 32S45]
- 14E20 Coverings, fundamental group (mappings)
- 14E22 Ramification problems [See also 11S15]
- 14E25 Embeddings
- 14E30 Minimal models
- 14E35 Results in dimension ≤ 3
- 14E40 Local structure of maps: étale, flat, etc. [See also 13-XX, 14F20]
- 14E99 None of the above, but in this section
- 14Fxx (Co)homology theory [See also 13Dxx]**
- 14F05 Vector bundles, sheaves, related construction [See also 18F20, 32Lxx, 46M20]
- 14F10 Differentials and other special sheaves [See also 32C38]
- 14F17 Vanishing theorems [See also 32L20]
- 14F20 Étale and other Grothendieck topologies and cohomologies
- 14F25 Classical real and complex cohomology
- 14F30 p -adic cohomology, crystalline cohomology
- 14F32 Intersection (co)homology [See also 32S60]
- 14F35 Homotopy theory; fundamental groups [See also 14E20, 14H30]
- 14F40 de Rham cohomology [See also 14C30, 32C35, 32L10]
- 14F45 Topological properties
- 14F99 None of the above, but in this section
- 14Gxx Arithmetic problems. Diophantine geometry [See also 11Dxx, 11Gxx]**
- 14G05 Rationality questions, rational points
- 14G10 Zeta-functions and related questions [See also 11G40] (Birch-Swinnerton-Dyer conjecture)
- 14G15 Finite ground fields
- 14G20 p -adic ground fields
- 14G25 Global ground fields
- 14G27 Nonalgebraically closed ground fields
- 14G35 Modular and Shimura varieties [See also 11F41, 11F46, 11G18]
- 14G40 Arithmetic varieties and schemes; Arakelov theory
- 14G99 None of the above, but in this section
- 14Hxx Curves**
- 14H05 Algebraic functions; function fields [See also 11R58]
- 14H10 Families, moduli (algebraic)
- 14H15 Families, moduli (analytic) [See also 30F10, 32Gxx]
- 14H20 Singularities, local rings [See also 13Hxx]
- 14H25 Arithmetic ground fields [See also 11Dxx, 11G05, 14Gxx]
- 14H30 Coverings, fundamental group [See also 14E20, 14F35]
- 14H35 Correspondences [See also 14Exx]
- 14H40 Jacobians [See also 32G20]
- 14H42 Theta functions; Schottky problem [See also 14K25, 32G20]
- 14H45 Special curves and curves of low genus
- 14H50 Space curves
- 14H52 Elliptic curves [See also 11G05, 11G07, 14Kxx]
- 14H55 Riemann surfaces; Weierstrass points; gap sequences [See also 30Fxx]
- 14H60 Vector bundles on curves [See also 14F05]
- 14H99 None of the above, but in this section
- 14Jxx Surfaces and higher-dimensional varieties {For analytic theory, see 32Jxx}**
- 14J05 Picard group [See also 14C22, 19A49, 32L05]
- 14J10 Families, moduli, classification: algebraic theory
- 14J15 Moduli, classification: analytic theory [See also 32G13, 32J15]
- 14J17 Singularities of surfaces
- 14J20 Arithmetic ground fields [See also 11Dxx, 11G25, 11G35, 14Gxx]
- 14J25 Special surfaces {For Hilbert modular surfaces, see 14G35}
- 14J26 Rational and ruled surfaces
- 14J27 Elliptic surfaces
- 14J28 $K3$ surfaces and Enriques surfaces
- 14J29 Surfaces of general type
- 14J30 Special 3-folds [See also 14E05]
- 14J32 Calabi-Yau manifolds
- 14J35 Special 4-folds [See also 14E05]
- 14J40 Special n -folds
- 14J45 Fano varieties
- 14J50 Automorphisms of surfaces and higher-dimensional varieties [See also 14E09]
- 14J60 Vector bundles on surfaces and higher-dimensional varieties [See also 14F05, 32Lxx]
- 14J70 Hypersurfaces
- 14J99 None of the above, but in this section
- 14Kxx Abelian varieties and schemes**
- 14K02 Isogeny
- 14K05 Algebraic theory
- 14K10 Algebraic moduli, classification
- 14K15 Arithmetic ground fields [See also 11Dxx, 11Fxx, 11Gxx, 14Gxx]
- 14K20 Analytic theory; abelian integrals and differentials
- 14K22 Complex multiplication [See also 11G15]
- 14K25 Theta functions
- 14K30 Picard schemes, higher Jacobians [See also 14H40, 32G20]
- 14K99 None of the above, but in this section
- 14Lxx Group schemes {For linear algebraic groups, see 20Gxx. For Lie algebras, see 17B45}**
- 14L05 Formal groups, p -divisible groups [See also 55N22]
- 14L10 Group varieties
- 14L15 Group schemes
- 14L17 Affine algebraic groups, hyperalgebra constructions [See also 17B45, 18D35]
- 14L27 Automorphism groups [See also 14E09]
- 14L30 Group actions on varieties or schemes (quotients) [See also 14D25]
- 14L35 Classical groups (geometric aspects) [See also 20Gxx, 51N30]
- 14L40 Other algebraic groups (geometric aspects)
- 14L99 None of the above, but in this section
- 14Mxx Special varieties**
- 14M05 Varieties defined by ring conditions (factorial, Cohen-Macaulay, seminormal) [See also 13C14, 13F45, 13H10]
- 14M06 Linkage [See also 13C40]
- 14M07 Low-codimension problems [See also 14Cxx]
- 14M10 Complete intersections [See also 13C40]
- 14M12 Determinantal varieties [See also 13C40]
- 14M15 Grassmannians, Schubert varieties, flag manifolds [See also 32M10, 51M35]
- 14M17 Homogeneous spaces and generalizations [See also 32M10, 53C30, 57T15]
- 14M20 Rational varieties
- 14M25 Toric varieties, Newton polyhedra
- 14M30 Supervarieties [See also 14A22, 32C11, 58A50]
- 14M99 None of the above, but in this section
- 14Nxx Classical methods and problems [See also 51-XX]**
- 14N05 Projective techniques [See also 51N35]
- 14N10 Enumerative problems (combinatorial problems)
- 14N99 None of the above, but in this section
- 14Pxx Real algebraic and real analytic geometry**
- 14P05 Real algebraic sets [See also 12Dxx]
- 14P10 Semialgebraic sets and related spaces
- 14P15 Real analytic and semianalytic sets [See also 32B20, 32C05]
- 14P20 Nash functions and manifolds [See also 32C07, 58A07]
- 14P25 Topology of real algebraic varieties
- 14P99 None of the above, but in this section
- 14Qxx Computational aspects in algebraic geometry [See also 12-04, 68Q40]**
- 14Q05 Curves
- 14Q10 Surfaces, hypersurfaces
- 14Q15 Higher-dimensional varieties
- 14Q20 Effectivity
- 14Q99 None of the above, but in this section

15-XX LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY (finite and infinite)

- 15-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 15-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 15-02 Research exposition (monographs, survey articles)
- 15-03 Historical (must also be assigned at least one classification number from Section 01)
- 15-04 Explicit machine computation and programs (not the theory of computation or programming)
- 15-06 Proceedings, conferences, collections, etc.
- 15A03 Vector spaces, linear dependence, rank
- 15A04 Linear transformations, semilinear transformations
- 15A06 Linear equations
- 15A09 Matrix inversion, generalized inverses
- 15A12 Conditioning of matrices [See also 65F35]
- 15A15 Determinants, permanents, other special matrix functions [See also 19B10, 19B14]
- 15A18 Eigenvalues, singular values, and eigenvectors
- 15A21 Canonical forms, reductions, classification
- 15A22 Matrix pencils [See also 47A56]
- 15A23 Factorization of matrices
- 15A24 Matrix equations and identities
- 15A27 Commutativity
- 15A30 Algebraic systems of matrices [See also 16S50, 20Gxx, 20Hxx]
- 15A33 Matrices over special rings (quaternions, finite fields, etc.)
- 15A36 Matrices of integers [See also 11C20]
- 15A39 Linear inequalities
- 15A42 Inequalities involving eigenvalues and eigenvectors
- 15A45 Miscellaneous inequalities involving matrices
- 15A48 Positive matrices and their generalizations; cones of matrices
- 15A51 Stochastic matrices
- 15A52 Random matrices
- 15A54 Matrices over function rings in one or more variables
- 15A57 Other types of matrices (Hermitian, skew-Hermitian, etc.)
- 15A60 Norms of matrices, numerical range, applications of functional analysis to matrix theory [See also 65F35, 65J05]
- 15A63 Quadratic and bilinear forms, inner products [See mainly 11Exx]
- 15A66 Clifford algebras, spinors
- 15A69 Multilinear algebra, tensor products
- 15A72 Vector and tensor algebra, theory of invariants [See also 13A50, 14D25]
- 15A75 Exterior algebra, Grassmann algebras
- 15A78 Other algebras built from modules
- 15A90 Applications of matrix theory to physics
- 15A99 Miscellaneous topics

16-XX ASSOCIATIVE RINGS AND ALGEBRAS {For the commutative case, see 13-XX}

- 16-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 16-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 16-02 Research exposition (monographs, survey articles)
- 16-03 Historical (must also be assigned at least one classification number from Section 01)
- 16-04 Explicit machine computation and programs (not the theory of computation or programming)
- 16-06 Proceedings, conferences, collections, etc.
- 16Bxx **General and miscellaneous**
- 16B50 Category-theoretic methods and results (except as in 16D90, 16E10) [See also 18-XX]
- 16B70 Applications of logic [See also 03Cxx]
- 16B99 None of the above, but in this section
- 16Dxx **Modules, bimodules and ideals**
- 16D10 General module theory
- 16D15 1-sided ideals
- 16D20 Bimodules
- 16D25 2-sided ideals
- 16D30 Maximal and prime 2-sided ideals [See also 16N60, 16D60], simple rings (except as in 16Kxx)
- 16D40 Free, projective, and flat modules and ideals [See also 18G05, 19A13]
- 16D50 Injective modules, self-injective rings [See also 16L60, 18G05]
- 16D60 Simple and semisimple modules, primitive rings and ideals
- 16D70 Structure and classification (except as in 16Gxx), direct sum decomposition, cancellation
- 16D80 Other classes of modules and ideals [See also 16G60]
- 16D90 Module categories [See also 16Exx, 16Gxx, 16S90]; module theory in a category-theoretic context; Morita equivalence and duality
- 16D99 None of the above, but in this section
- 16Exx **Homological methods and results** [See also 18Gxx]
- 16E10 Homological dimension
- 16E20 Grothendieck groups, K -theory, etc. [See also 18F30, 19-XX]
- 16E30 Homological functors on modules
- 16E40 Hochschild and other homology and cohomology theories for rings

- 16E50 von Neumann regular rings and generalizations
- 16E60 Semihereditary and hereditary rings, free ideal rings, Sylvester rings, etc.
- 16E70 Other rings of low global or flat dimension
- 16E99 None of the above, but in this section
- 16Gxx **Representation theory of rings and algebras**
- 16G10 Representations of Artinian rings
- 16G20 Representations of quivers and partially ordered sets
- 16G30 Representations of orders, lattices, algebras over commutative rings [See also 16H05]
- 16G50 Cohen-Macaulay modules
- 16G60 Representation type (finite, tame, wild, etc.)
- 16G70 Auslander-Reiten sequences (almost split sequences) and Auslander-Reiten quivers
- 16G99 None of the above, but in this section
- 16H05 **Orders and arithmetic, separable algebras, Azumaya algebras** [See also 11R52, 11R54, 11S45, 13A20]
- 16Kxx **Division rings and semisimple Artinian rings** [See also 12E15, 15A30]
- 16K20 Finite-dimensional {For Brauer group theory, see 12Gxx, 13A20; for crossed products, see 16S35}
- 16K40 Infinite-dimensional and general
- 16K99 None of the above, but in this section
- 16Lxx **Local rings and generalizations**
- 16L30 Noncommutative local and semilocal rings, perfect rings
- 16L60 Quasi-Frobenius rings [See also 16D50]
- 16L99 None of the above, but in this section
- 16Nxx **Radicals and radical properties of rings**
- 16N20 Jacobson radical, quasimultiplication
- 16N40 Nil and nilpotent radicals, sets, ideals, rings
- 16N60 Prime and semiprime rings [See also 16D30, 16D60, 16U10]
- 16N80 General radicals and rings {For radicals in module categories, see 16S90}
- 16N99 None of the above, but in this section
- 16Pxx **Chain conditions, growth conditions, and other forms of finiteness**
- 16P10 Finite rings and finite-dimensional algebras {For semisimple, see 16K20; for commutative, see 11Txx, 13Mxx}
- 16P20 Artinian rings and modules
- 16P40 Noetherian rings and modules
- 16P50 Localization and Noetherian rings [See also 16U20]
- 16P60 Chain conditions on annihilators and summands: Goldie type conditions [See also 16U20], Krull dimension
- 16P70 Chain conditions on other classes of submodules, ideals, subrings, etc.; coherence
- 16P90 Growth rate, Gel'fand-Kirillov dimension
- 16P99 None of the above, but in this section
- 16Rxx **Rings with polynomial identity**
- 16R10 T -ideals, identities, varieties of rings and algebras
- 16R20 Semiprime p.i. rings, rings embeddable in matrices over commutative rings
- 16R30 Trace rings and invariant theory
- 16R40 Identities other than those of matrices over commutative rings
- 16R50 Other kinds of identities (generalized polynomial, rational, involution)
- 16R99 None of the above, but in this section
- 16Sxx **Rings and algebras arising under various constructions**
- 16S10 Rings determined by universal properties (free algebras, coproducts, adjunction of inverses, etc.)
- 16S15 Finite generation, finite presentability, normal forms (diamond lemma, term-rewriting)
- 16S20 Centralizing and normalizing extensions
- 16S30 Universal enveloping algebras of Lie algebras [See mainly 17B35]
- 16S32 Rings of differential operators [See also 13N10, 32C38]
- 16S34 Group rings [See also 20C05, 20C07], Laurent polynomial rings
- 16S35 Twisted and skew group rings, crossed products
- 16S36 Ordinary and skew polynomial rings and semigroup rings [See also 20M25]
- 16S40 Smash products of general Hopf actions [See also 16W30]
- 16S50 Endomorphism rings; matrix rings [See also 15-XX]
- 16S60 Rings of functions, subdirect products, sheaves of rings
- 16S70 Extensions of rings by ideals
- 16S80 Deformations of rings [See also 14D15]
- 16S90 Maximal ring of quotients, torsion theories, radicals on module categories [See also 13D30, 18E40] {For radicals of rings see 16Nxx}
- 16S99 None of the above, but in this section
- 16Uxx **Conditions on elements (including elements of matrix rings, etc.)**
- 16U10 Integral domains
- 16U20 Ore rings, multiplicative sets, Ore localization
- 16U30 Divisibility, noncommutative UFDs
- 16U50 Algebraicity and local finiteness [See also 16N40]
- 16U60 Units, groups of units, general linear groups
- 16U70 Center, normalizer (invariant elements)
- 16U80 Generalizations of commutativity
- 16U99 None of the above, but in this section

- 16Wxx Rings and algebras with additional structure**
16W10 Rings with involution; Lie, Jordan and other nonassociative structures [See also 17B60, 17C50, 46Kxx]
16W20 Automorphisms and endomorphisms, actions of groups and semigroups and their fixed rings
16W25 Derivations, actions of Lie algebras
16W30 Coalgebras, bialgebras, Hopf algebras [See also 57T05, 16S30–16S40]; rings, modules, etc. on which these act
16W50 Graded rings and modules
16W55 "Super" (or "skew") structure [See also 17A70, 17B70, 17C70] {For exterior algebras, see 15A75; for Clifford algebras, see 11E88, 15A66}
16W60 Filtrations and valuations, generalizations of Euclidean algorithm, completions, formal power series and related constructions [See also 13Jxx]
16W80 Topological and ordered rings and modules [See also 13Jxx]
16W99 None of the above, but in this section
16Yxx Generalizations {For nonassociative rings, see 17–xx}
16Y30 Near-rings [See also 12K05]
16Y60 Semirings [See also 12K10]
16Y99 None of the above, but in this section
- 17–XX NONASSOCIATIVE RINGS AND ALGEBRAS**
17–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
17–01 Instructional exposition (textbooks, tutorial papers, etc.)
17–02 Research exposition (monographs, survey articles)
17–03 Historical (must also be assigned at least one classification number from Section 01)
17–04 Explicit machine computation and programs (not the theory of computation or programming)
17–06 Proceedings, conferences, collections, etc.
17–08 Computational methods
17Axx General nonassociative rings
17A01 General theory
17A05 Power-associative
17A10 Commutative power-associative
17A15 Noncommutative Jordan algebras
17A20 Flexible algebras
17A25 Nodal algebras
17A30 Algebras satisfying other identities
17A35 Division algebras
17A36 Automorphisms, derivations, other operators
17A40 Ternary compositions
17A42 Other n -ary compositions
17A45 Quadratic algebras (but not quadratic Jordan algebras)
17A50 Free algebras
17A60 Structure theory
17A65 Radical theory
17A70 Superalgebras
17A75 Composition algebras
17A80 Valued algebras
17A99 None of the above, but in this section
17Bxx Lie algebras and Lie superalgebras {For Lie groups, see 22Exx}
17B01 Identities, free Lie algebras
17B05 Structure theory
17B10 Representations, algebraic theory (weights)
17B15 Representations, analytic theory
17B20 Simple, semisimple, reductive algebras (roots)
17B25 Exceptional algebras
17B30 Solvable, nilpotent algebras
17B35 Universal enveloping algebras [See also 16S30]
17B37 Quantum groups and related deformations [See also 16W30, 81R50, 82B23]
17B40 Automorphisms, derivations, other operators
17B45 Lie algebras of linear algebraic groups [See also 14Lxx and 20Gxx]
17B50 Modular Lie algebras
17B55 Homological methods in Lie algebras and superalgebras
17B56 Cohomology of Lie algebras and superalgebras
17B60 Lie rings associated with other structures (associative, Jordan, etc.) [See also 15A30, 16W10, 17C40, 17C50]
17B65 Infinite-dimensional Lie algebras and superalgebras [See also 22E65]
17B66 Lie algebras of vector fields and related algebras
17B67 Kac-Moody algebras (structure and representation theory)
17B68 Virasoro and related algebras
17B69 Vertex operators
17B70 Graded Lie algebras
17B81 Applications to physics
17B99 None of the above, but in this section
17Cxx Jordan algebras (algebras, triples and pairs)
17C05 Identities and free Jordan structures
17C10 Structure theory
17C17 Radicals
17C20 Simple, semisimple algebras
17C27 Idempotents, Peirce decompositions
17C30 Associated groups, automorphisms
17C36 Associated manifolds
17C37 Associated geometries
17C40 Exceptional Jordan structures
17C50 Jordan structures associated with other structures [See also 16W10]
17C55 Finite-dimensional structures
17C60 Division algebras
17C65 Jordan structures on Banach spaces and algebras [See also 46H70, 46L70]
17C70 Super structures
17C90 Applications to physics
17C99 None of the above, but in this section
17Dxx Other nonassociative rings and algebras
17D05 Alternative rings
17D10 Mal'tsev (Mal'tsev) rings and algebras
17D15 Right alternative rings
17D20 (γ, δ) -rings, including $(1, -1)$ -rings
17D25 Lie-admissible algebras
17D92 Genetic algebras
17D99 None of the above, but in this section
- 18–XX CATEGORY THEORY, HOMOLOGICAL ALGEBRA**
18–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
18–01 Instructional exposition (textbooks, tutorial papers, etc.)
18–02 Research exposition (monographs, survey articles)
18–03 Historical (must also be assigned at least one classification number from Section 01)
18–04 Explicit machine computation and programs (not the theory of computation or programming)
18–06 Proceedings, conferences, collections, etc.
18Axx General theory of categories and functors
18A05 Definitions, generalizations
18A10 Graphs, diagram schemes, precategories, neocategories [See also 20Lxx]
18A15 Foundations, relations to logic and deductive systems [See also 03–XX]
18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms, factorization (bicategories)
18A22 Special properties of functors (faithful, full, etc.)
18A23 Natural morphisms, dinatural morphisms
18A25 Functor categories, comma categories
18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)
18A32 Factorization of morphisms (via images, coinages, dominions, codominions), substructures, quotient structures, congruences, amalgams
18A35 Categories admitting limits (complete categories), functors commuting with limits, continuous functors, completions
18A40 Adjoint functors (representable functors, universal constructions, reflective subcategories, reflections, etc.), constructions of adjoints (Kan extensions, etc.)
18A99 None of the above, but in this section
18Bxx Special categories
18B05 Category of sets, characterizations [See also 03–XX]
18B10 Category of relations, additive relations
18B15 Embedding theorems, universal categories [See also 18E20]
18B20 Categories of machines, automata, operative categories [See also 03D05, 68Qxx]
18B25 Topoi [See also 03G30]
18B30 Categories of topological spaces and continuous mappings [See also 54–XX]
18B35 Preorders, orders and lattices (viewed as categories) [See also 06–XX]
18B40 Groupoids, semigroupoids, semigroups, groups (viewed as categories) [See also 20Axx, 20Lxx, 20Mxx]
18B99 None of the above, but in this section
18Cxx Categories and algebraic theories
18C05 Equational categories [See also 03C05, 08C05]
18C10 Theories (e.g. algebraic theories), structure, and semantics [See also 03G30]
18C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [See also 18Gxx]
18C20 Algebras and Kleisli categories associated with monads
18C99 None of the above, but in this section
18Dxx Categories with structure
18D05 Double categories, 2-categories, bicategories, hypercategories
18D10 Monoidal categories (= multiplicative categories) [See also 19D23]
18D15 Closed categories (closed monoidal and Cartesian closed categories, etc.)
18D20 Enriched categories (over closed or monoidal categories)
18D25 Strong functors, strong adjunctions
18D30 Fibered categories

- 18D35 Structured objects in a category (group objects, etc.)
 18D99 None of the above, but in this section
18Exx Abelian categories
 18E05 Preadditive, additive categories
 18E10 Exact categories, abelian categories
 18E15 Grothendieck categories
 18E20 Embedding theorems [See also 18B15]
 18E25 Derived functors and satellites
 18E30 Derived categories, triangulated categories
 18E35 Localization of categories
 18E40 Torsion theories, radicals [See also 13D30, 16S90]
 18E99 None of the above, but in this section
18Fxx Categories and geometry
 18F05 Local categories and functors
 18F10 Grothendieck topologies [See also 14F20]
 18F15 Abstract manifolds and fiber bundles [See also 55Rxx, 57Pxx]
 18F20 Presheaves and sheaves [See also 14F05, 32C35, 32L10, 54B40, 55N30]
 18F25 Algebraic K -theory and L -theory [See also 11Exx, 11R70, 11S70, 12-XX, 13D15, 14Cxx, 16E20, 19-XX, 46L80, 57R65, 57R67]
 18F30 Grothendieck groups [See also 13D15, 16E20, 19Axx]
 18F99 None of the above, but in this section
18Gxx Homological algebra [See also 13Dxx, 16Exx, 55Uxx]
 18G05 Projectives and injectives [See also 13C10, 13C11, 16D40, 16D50]
 18G10 Resolutions; derived functors [See also 18E25]
 18G15 Ext and Tor, generalizations, Künneth formula [See also 55U25]
 18G20 Homological dimension [See also 13D05, 16E10]
 18G25 Relative homological algebra, projective classes
 18G30 Simplicial sets, simplicial objects (in a category) [See also 55U10]
 18G35 Chain complexes [See also 18E30, 55U15]
 18G40 Spectral sequences, hypercohomology [See also 55Txx]
 18G50 Nonabelian homological algebra
 18G55 Nonabelian homotopical algebra
 18G60 Other (co)homology theories (cyclic, dihedral, etc.) [See also 19D55, 46L80, 58B30, 58G12]
 18G99 None of the above, but in this section
19-XX K-THEORY [See also 16E20, 18F25]
 19-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 19-01 Instructional exposition (textbooks, tutorial papers, etc.)
 19-02 Research exposition (monographs, survey articles)
 19-03 Historical (must also be assigned at least one classification number from Section 01)
 19-04 Explicit machine computation and programs (not the theory of computation or programming)
 19-06 Proceedings, conferences, collections, etc.
19Axx Grothendieck groups and K_0 [See also 13D15, 18F30]
 19A13 Stability for projective modules [See also 13C10]
 19A15 Efficient generation
 19A22 Frobenius induction, Burnside and representation rings
 19A31 K_0 of group rings and orders
 19A49 K_0 of other rings
 19A99 None of the above, but in this section
19Bxx Whitehead groups and K_1
 19B10 Stable range conditions
 19B14 Stability for linear groups
 19B28 K_1 of group rings and orders [See also 57Q10]
 19B37 Congruence subgroup problems [See also 20H05]
 19B99 None of the above, but in this section
19Cxx Steinberg groups and K_2
 19C09 Central extensions and Schur multipliers
 19C20 Symbols, presentations and stability of K_2
 19C30 K_2 and the Brauer group
 19C40 Excision for K_2
 19C99 None of the above, but in this section
19Dxx Higher algebraic K -theory
 19D06 Q - and plus-constructions
 19D10 Algebraic K -theory of spaces
 19D23 Symmetric monoidal categories [See also 18D10]
 19D25 Karoubi-Villamayor-Gersten K -theory
 19D35 Negative K -theory, NK and Nil
 19D45 Higher symbols, Milnor K -theory
 19D50 Computations of higher K -theory of rings [See also 13D15, 16E20]
 19D55 K -theory and homology; cyclic homology and cohomology [See also 18G60]
 19D99 None of the above, but in this section
19Exx K -theory in geometry
 19E08 K -theory of schemes [See also 14C35]
 19E15 Algebraic cycles [See also 14C25, 14C35]
 19E20 Relations with cohomology theories [See also 14Fxx]
 19E99 None of the above, but in this section
19Fxx K -theory in number theory [See also 11R70, 11S70]
 19F05 Generalized class field theory [See also 11G45]
 19F15 Symbols and arithmetic [See also 11R37]
 19F27 Étale cohomology, higher regulators, zeta and L -functions [See also 11G40, 11R42, 11S40, 14F20, 14G10]
 19F99 None of the above, but in this section
19Gxx K -theory of forms [See also 11Exx]
 19G05 Stability for quadratic modules
 19G12 Witt groups of rings [See also 11E81]
 19G24 L -theory of group rings [See also 11E81]
 19G38 Hermitian K -theory, relations with K -theory of rings
 19G99 None of the above, but in this section
19Jxx Obstructions from topology
 19J05 Finiteness and other obstructions in K_0
 19J10 Whitehead (and related) torsion
 19J25 Surgery obstructions [See also 57R67]
 19J35 Obstructions to group actions
 19J99 None of the above, but in this section
19Kxx K -theory and operator algebras [See mainly 46L80, and also 46M20]
 19K14 K_0 as an ordered group, traces
 19K33 EXT and K -homology [See also 55N22]
 19K35 Kasparov theory (KK -theory) [See also 58G12]
 19K56 Index theory [See also 58G12]
 19K99 None of the above, but in this section
19Lxx Topological K -theory [See also 55N15, 55R50, 55S25]
 19L10 Riemann-Roch theorems, Chern characters
 19L20 J -homomorphism, Adams operations [See also 55Q50]
 19L41 Connective K -theory, cobordism [See also 55N22]
 19L47 Equivariant K -theory [See also 55N91, 55P91, 55Q91, 55R91, 55S91]
 19L64 Computations, geometric applications
 19L99 None of the above, but in this section
19M05 Miscellaneous applications of K -theory
20-XX GROUP THEORY AND GENERALIZATIONS
 20-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 20-01 Instructional exposition (textbooks, tutorial papers, etc.)
 20-02 Research exposition (monographs, survey articles)
 20-03 Historical (must also be assigned at least one classification number from Section 01)
 20-04 Explicit machine computation and programs (not the theory of computation or programming)
 20-06 Proceedings, conferences, collections, etc.
20Axx Foundations
 20A05 Axiomatics and elementary properties
 20A10 Metamathematical considerations [For word problems, see 20F10]
 20A15 Applications of logic to group theory
 20A99 None of the above, but in this section
20Bxx Permutation groups
 20B05 General theory for finite groups
 20B07 General theory for infinite groups
 20B10 Characterization theorems
 20B15 Primitive groups
 20B20 Multiply transitive finite groups
 20B22 Multiply transitive infinite groups
 20B25 Finite automorphism groups of algebraic, geometric, or combinatorial structures [See also 05Bxx, 12F10, 20G40, 20H30, 51-XX]
 20B27 Infinite automorphism groups [See also 12F10]
 20B30 Symmetric groups
 20B35 Subgroups of symmetric groups
 20B40 Computational methods
 20B99 None of the above, but in this section
20Cxx Representation theory of groups [See also 19A22 (for representation rings and Burnside rings)]
 20C05 Group rings of finite groups and their modules [See also 16S34]
 20C07 Group rings of infinite groups and their modules [See also 16S34]
 20C10 Integral representations of finite groups
 20C11 p -adic representations of finite groups
 20C12 Integral representations of infinite groups
 20C15 Ordinary representations and characters
 20C20 Modular representations and characters
 20C25 Projective representations and multipliers
 20C30 Representations of finite symmetric groups
 20C32 Representations of infinite symmetric groups
 20C33 Representations of finite groups of Lie type
 20C34 Representations of sporadic groups
 20C35 Applications of group representations to physics
 20C40 Computational methods
 20C99 None of the above, but in this section
20Dxx Abstract finite groups
 20D05 Classification of simple and nonsolvable groups
 20D06 Simple groups: alternating groups and groups of Lie type [See also 20Gxx, 22Exx]

- 20D08 Simple groups; sporadic groups
 20D10 Solvable groups, theory of formations, Schunck classes, Fitting classes, π -length, ranks [See also 20F17]
 20D15 Nilpotent groups, p -groups
 20D20 Sylow subgroups, Sylow properties, π -groups, π -structure
 20D25 Special subgroups (Frattini, Fitting, etc.)
 20D30 Series and lattices of subgroups
 20D35 Subnormal subgroups
 20D40 Products of subgroups
 20D45 Automorphisms
 20D50 Covering of subgroups
 20D60 Arithmetic and combinatorial problems
 20D99 None of the above, but in this section
20Exx Structure and classification of infinite or finite groups
 20E05 Free nonabelian groups
 20E06 Free products, free products with amalgamation, Higman-Neumann-Neumann extensions, and generalizations
 20E07 Subgroup theorems
 20E08 Groups acting on trees
 20E10 Quasivarieties and varieties of groups
 20E15 Chains and lattices of subgroups, subnormal subgroups [See also 20F22]
 20E18 Limits, profinite groups
 20E22 Extensions, wreath products, and other compositions [See also 20J05]
 20E25 Local properties
 20E26 Residual properties and generalizations
 20E28 Maximal subgroups
 20E32 Simple groups [See also 20D05]
 20E34 General structure theorems
 20E36 General theorems concerning automorphisms of groups
 20E42 Groups with a BN -pair, buildings [See also 51E24]
 20E99 None of the above, but in this section
20Fxx Special aspects of infinite or finite groups
 20F05 Generators, relations, and presentations
 20F06 Cancellation theory; application of van Kampen diagrams [See also 57M05]
 20F10 Word problems, other decision problems, connections with logic and automata [See also 03B25, 03D05, 03D40, 06B25, 08A50, 68Qxx]
 20F12 Commutator calculus
 20F14 Derived series, central series, and generalizations
 20F16 Solvable groups, supersolvable groups
 20F17 Formations of groups, Fitting classes [See also 20D10]
 20F18 Nilpotent groups
 20F19 Generalizations of solvable and nilpotent groups
 20F22 Other classes of groups defined by subgroup chains
 20F24 FC-groups and their generalizations
 20F28 Automorphism groups of groups [See also 20E36]
 20F29 Representations of groups as automorphism groups of algebraic systems
 20F32 Geometric group theory [See also 05C25, 20Exx, 20Gxx]
 20F34 Fundamental groups and their automorphisms [See also 57M05, 57Sxx, 22E40]
 20F36 Braid groups; Artin groups
 20F38 Other groups related to topology or analysis
 20F40 Associated Lie structures
 20F45 Engel conditions
 20F50 Periodic groups; locally finite groups
 20F55 Coxeter groups [See also 22E40]
 20F60 Ordered groups [See mainly 06F15]
 20F99 None of the above, but in this section
20Gxx Linear algebraic groups (classical groups) {For arithmetic theory, see 11E57, 11H06; for geometric theory, see 14Lxx, 22Exx; for other methods in representation theory, see 15A30, 22E45, 22E46, 22E47, 22E50, 22E55}
 20G05 Representation theory
 20G10 Cohomology theory
 20G15 Linear algebraic groups over arbitrary fields
 20G20 Linear algebraic groups over the reals, the complexes, the quaternions
 20G25 Linear algebraic groups over local fields and their integers
 20G30 Linear algebraic groups over global fields and their integers
 20G35 Linear algebraic groups over adèles and other rings and schemes
 20G40 Linear algebraic groups over finite fields
 20G45 Applications to physics; explicit representations
 20G99 None of the above, but in this section
20Hxx Other groups of matrices [See also 15A30]
 20H05 Unimodular groups, congruence subgroups [See also 11F06, 19B37, 22E40, 51F20]
 20H10 Fuchsian groups and their generalizations [See also 11F06, 22E40, 30F35, 32Nxx]
 20H15 Other geometric groups, including crystallographic groups [See also 51-XX, especially 51F15, and 82D25]
 20H20 Other matrix groups over fields
 20H25 Other matrix groups over rings
 20H30 Other matrix groups over finite fields
 20H99 None of the above, but in this section
20Jxx Connections with homological algebra and category theory
 20J05 Homological methods in group theory
 20J06 Cohomology of finite groups
 20J10 Groups arising as cohomology groups
 20J15 Category of groups
 20J99 None of the above, but in this section
20Kxx Abelian groups
 20K01 Finite abelian groups
 20K05 Finitely generated groups
 20K10 Torsion groups, primary groups and generalized primary groups
 20K12 Ulm sequences
 20K15 Torsion free groups, finite rank
 20K20 Torsion free groups, infinite rank
 20K21 Mixed groups
 20K25 Direct sums, direct products, etc.
 20K26 Indecomposable groups
 20K27 Subgroups
 20K30 Automorphisms, homomorphisms, endomorphisms, etc.
 20K35 Extensions
 20K40 Homological and categorical methods
 20K45 Topological methods [See also 22A05, 22B05]
 20K99 None of the above, but in this section
20Lxx Groupoids (i.e. small categories in which all morphisms are isomorphisms) {For sets with a single binary operation, see 20N02; for topological groupoids, see 22A22, 58H05}
 20L05 General theory
 20L10 Connections with group theory
 20L13 Mappings of groupoids
 20L15 Connections with topology
 20L17 Connections with category theory
 20L99 None of the above, but in this section
20Mxx Semigroups
 20M05 Free semigroups, generators and relations, word problems
 20M07 Varieties of semigroups
 20M10 General structure theory
 20M11 Radical theory
 20M12 Ideal theory
 20M14 Commutative semigroups
 20M15 Mappings of semigroups
 20M17 Regular semigroups
 20M18 Inverse semigroups
 20M19 Orthodox semigroups
 20M20 Semigroups of transformations, etc. [See also 47D03, 47H20, 54H15]
 20M25 Semigroup rings, multiplicative semigroups of rings [See also 16S36, 16Y60]
 20M30 Representation of semigroups
 20M35 Semigroups in automata theory, linguistics, etc. [See also 03D05, 68Qxx, 68S05]
 20M50 Connections of semigroups with homological algebra and category theory
 20M99 None of the above, but in this section
20Nxx Other generalizations of groups
 20N02 Sets with a single binary operation (groupoids)
 20N05 Loops, quasigroups [See also 05Bxx]
 20N07 Mappings of loops
 20N10 Ternary systems (heaps, semiheaps, heapoids, etc.)
 20N15 n -ary systems
 20N20 Hypergroups
 20N25 Fuzzy groups [See also 04A72]
 20N99 None of the above, but in this section
20P05 Probabilistic methods in group theory
22-XX TOPOLOGICAL GROUPS, LIE GROUPS {For transformation groups, see 54H15, 57Sxx, 58-XX. For abstract harmonic analysis, see 43-XX}
 22-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 22-01 Instructional exposition (textbooks, tutorial papers, etc.)
 22-02 Research exposition (monographs, survey articles)
 22-03 Historical (must also be assigned at least one classification number from Section 01)
 22-04 Explicit machine computation and programs (not the theory of computation or programming)
 22-06 Proceedings, conferences, collections, etc.
22Axx Topological and differentiable algebraic systems {For topological rings and fields, see 12Jxx, 13Jxx, 16W80; for dual spaces of operator algebras and topological groups, see 47D35}
 22A05 Structure of general topological groups
 22A10 Analysis on general topological groups
 22A15 Structure of topological semigroups

- 22A20 Analysis on topological semigroups
 22A22 Topological groupoids (including differentiable and Lie groupoids)
 22A25 Representations of general topological groups and semigroups
 22A26 Topological semilattices, lattices and applications [See also 06B30, 06B35, 06F30]
 22A30 Other topological algebraic systems and their representations
 22A99 None of the above, but in this section
22Bxx Locally compact abelian groups (LCA groups)
 22B05 General properties and structure of LCA groups
 22B10 Structure of group algebras of LCA groups
 22B99 None of the above, but in this section
22C05 Compact groups
22Dxx Locally compact groups and their algebras
 22D05 General properties and structure of locally compact groups
 22D10 Unitary representations of locally compact groups
 22D12 Other representations of locally compact groups
 22D15 Group algebras of locally compact groups
 22D20 Representations of group algebras
 22D25 C^* -algebras and W^* -algebras arising from group representations [See also 46Lxx]
 22D30 Induced representations
 22D35 Duality theorems
 22D40 Ergodic theory on groups [See also 28Dxx, 43A60]
 22D45 Automorphism groups of locally compact groups
 22D99 None of the above, but in this section
22Exx Lie groups (For the topology of Lie groups and homogeneous spaces, see 57Sxx, 57Txx; for analysis thereon, see 43A80, 43A85, 43A90)
 22E05 Local Lie groups [See also 34-XX, 35-XX, 58H05]
 22E10 General properties and structure of complex Lie groups [See also 32M05]
 22E15 General properties and structure of real Lie groups
 22E20 General properties and structure of other Lie groups
 22E25 Nilpotent and solvable Lie groups
 22E27 Representations of nilpotent and solvable Lie groups (special orbital integrals, non-type I representations, etc.)
 22E30 Analysis on real and complex Lie groups [See also 33C80, 43-XX]
 22E35 Analysis on p -adic Lie groups [See also 11R56]
 22E40 Discrete subgroups of Lie groups [See also 20Hxx, 32Nxx]
 22E41 Continuous cohomology [See also 57R32, 57Txx, 58H10]
 22E43 Structure and representation of the Lorentz group
 22E45 Representations of Lie and linear algebraic groups over real fields: analytic methods (For the purely algebraic theory, see 20G05)
 22E46 Semisimple Lie groups and their representations
 22E47 Representations of Lie and real algebraic groups: algebraic methods (Verma modules, etc.) [See also 17B35]
 22E50 Representations of Lie and linear algebraic groups over local fields
 22E55 Representations of Lie and linear algebraic groups over global fields and adèle rings [See also 20G05]
 22E60 Lie algebras of Lie groups (For the algebraic theory of Lie algebras, see 17Bxx)
 22E65 Infinite-dimensional Lie groups and their Lie algebras [See also 17B65, 58B25, 58H05]
 22E67 Loop groups and related constructions, group-theoretic treatment [See also 58D05]
 22E70 Applications of Lie groups to physics; explicit representations [See also 81R05, 81R10]
 22E99 None of the above, but in this section
26-XX REAL FUNCTIONS [See also 54C30]
 26-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 26-01 Instructional exposition (textbooks, tutorial papers, etc.)
 26-02 Research exposition (monographs, survey articles)
 26-03 Historical (must also be assigned at least one classification number from Section 01)
 26-04 Explicit machine computation and programs (not the theory of computation or programming)
 26-06 Proceedings, conferences, collections, etc.
26Axx Functions of one variable
 26A03 Foundations: limits and generalizations, elementary topology of the line
 26A06 One-variable calculus
 26A09 Elementary functions
 26A12 Rate of growth of functions, orders of infinity, slowly varying functions [See also 26A48]
 26A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) (For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25, 41A27)
 26A16 Lipschitz (Hölder) classes
 26A18 Iteration [See also 39B12, 47H10, 54H25, 58F08, 58F13]
 26A21 Classification of real functions; Baire classification of sets and functions [See also 04A15, 28A05, 54C50]
 26A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [See also 28A15]
 26A27 Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives
 26A30 Singular functions, Cantor functions, functions with other special properties
 26A33 Fractional derivatives and integrals
 26A36 Antidifferentiation
 26A39 Denjoy and Perron integrals, other special integrals
 26A42 Integrals of Riemann, Stieltjes and Lebesgue type [See also 28-XX]
 26A45 Functions of bounded variation, generalizations
 26A46 Absolutely continuous functions
 26A48 Monotonic functions, generalizations
 26A51 Convexity, generalizations
 26A99 None of the above, but in this section
26Bxx Functions of several variables
 26B05 Continuity and differentiation questions
 26B10 Implicit function theorems, Jacobians, transformations with several variables
 26B12 Calculus of vector functions
 26B15 Integration: length, area, volume [See also 28A75, 51M25]
 26B20 Integral formulas (Stokes, Gauss, Green, etc.)
 26B25 Convexity, generalizations
 26B30 Absolutely continuous functions, functions of bounded variation
 26B35 Special properties of functions of several variables, Hölder conditions, etc.
 26B40 Representation and superposition of functions
 26B99 None of the above, but in this section
26Cxx Polynomials, rational functions
 26C05 Polynomials: analytic properties, etc. [See also 12Dxx, 12Exx]
 26C10 Polynomials: location of zeros [See also 12D10, 30C15, 65H05]
 26C15 Rational functions [See also 14Pxx]
 26C99 None of the above, but in this section
26Dxx Inequalities (For maximal function inequalities, see 42B25; for functional inequalities, see 39B72; for probabilistic inequalities, see 60E15)
 26D05 Inequalities for trigonometric functions and polynomials
 26D07 Inequalities involving other types of functions
 26D10 Inequalities involving derivatives and differential and integral operators
 26D15 Inequalities for sums, series and integrals
 26D20 Other analytical inequalities
 26D99 None of the above, but in this section
26Exx Miscellaneous topics [See also 58Cxx]
 26E05 Real-analytic functions [See also 32B05, 32C05]
 26E10 C^∞ -functions, quasi-analytic functions [See also 58C25]
 26E15 Calculus of functions on infinite-dimensional spaces [See also 46G05, 58Cxx]
 26E20 Calculus of functions taking values in infinite-dimensional spaces [See also 46E40, 46G10, 58Cxx]
 26E25 Set-valued functions [See also 28B20, 54C60] (For nonsmooth analysis, see 49J52, 58Cxx, 90Cxx)
 26E30 Non-Archimedean analysis [See also 12J25]
 26E35 Nonstandard analysis [See also 03H05, 28E05, 54J05]
 26E40 Constructive real analysis [See also 03F60, 03F65]
 26E50 Fuzzy real analysis [See also 04A72, 28E10]
 26E99 None of the above, but in this section
28-XX MEASURE AND INTEGRATION (For analysis on manifolds, see 58-XX)
 28-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 28-01 Instructional exposition (textbooks, tutorial papers, etc.)
 28-02 Research exposition (monographs, survey articles)
 28-03 Historical (must also be assigned at least one classification number from Section 01)
 28-04 Explicit machine computation and programs (not the theory of computation or programming)
 28-06 Proceedings, conferences, collections, etc.
28Axx Classical measure theory
 28A05 Classes of sets (Borel fields, σ -rings, etc.), measurable sets, Suslin sets, analytic sets [See also 03E15, 04A15, 26A21, 54H05]
 28A10 Real- or complex-valued set functions
 28A12 Contents, measures, outer measures, capacities
 28A15 Abstract differentiation theory, differentiation of set functions [See also 26A24]
 28A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence
 28A25 Integration with respect to measures and other set functions
 28A33 Spaces of measures, convergence of measures [See also 46E27, 60Bxx]
 28A35 Measures and integrals in product spaces
 28A50 Integration and disintegration of measures
 28A51 Lifting theory [See also 46G15]

- 28A60 Measures on Boolean rings, measure algebras [See also 54H10]
 28A75 Length, area, volume, other geometric measure theory [See also 26B15, 49Q15]
 28A78 Hausdorff measures
 28A80 Fractals [See also 58Fxx]
 28A99 None of the above, but in this section
28Bxx Set functions, measures and integrals with values in abstract spaces
 28B05 Vector-valued set functions, measures and integrals [See also 46G10]
 28B10 Group- or semigroup-valued set functions, measures and integrals
 28B15 Set functions, measures and integrals with values in ordered spaces
 28B20 Set-valued set functions and measures; integration of set-valued functions; measurable selections [See also 26E25, 54C60, 54C65, 90A14]
 28B99 None of the above, but in this section
28Cxx Set functions and measures on spaces with additional structure [See also 46G12, 58C35, 58D20]
 28C05 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.), representing set functions and measures
 28C10 Set functions and measures on topological groups, Haar measures, invariant measures [See also 22Axx, 43A05]
 28C15 Set functions and measures on topological spaces (regularity of measures, etc.)
 28C20 Set functions and measures and integrals in infinite-dimensional spaces (Wiener measure, Gaussian measure, etc.) [See also 46G12, 58C35, 58D20, 60B11]
 28C99 None of the above, but in this section
28Dxx Measure-theoretic ergodic theory [See also 11K50, 11K55, 22D40, 47A35, 54H20, 58Fxx, 60Fxx, 60G10]
 28D05 Measure-preserving transformations
 28D10 One-parameter continuous families of measure-preserving transformations
 28D15 General groups of measure-preserving transformations
 28D20 Entropy and other invariants
 28D99 None of the above, but in this section
28Exx Miscellaneous topics in measure theory
 28E05 Nonstandard measure theory [See also 03H05, 26E35]
 28E10 Fuzzy measure theory [See also 04A72, 26E50, 94D05]
 28E15 Other connections with logic and set theory
 28E99 None of the above, but in this section
- 30-XX FUNCTIONS OF A COMPLEX VARIABLE** (For analysis on manifolds, see 58-XX)
 30-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 30-01 Instructional exposition (textbooks, tutorial papers, etc.)
 30-02 Research exposition (monographs, survey articles)
 30-03 Historical (must also be assigned at least one classification number from Section 01)
 30-04 Explicit machine computation and programs (not the theory of computation or programming)
 30-06 Proceedings, conferences, collections, etc.
30Axx General properties
 30A05 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)
 30A10 Inequalities in the complex domain
 30A99 None of the above, but in this section
30Bxx Series expansions
 30B10 Power series (including lacunary series)
 30B20 Random power series
 30B30 Boundary behavior of power series, over-convergence
 30B40 Analytic continuation
 30B50 Dirichlet series and other series expansions, exponential series [See also 11M41, 42-XX]
 30B60 Completeness problems, closure of a system of functions
 30B70 Continued fractions [See also 11A55, 40A15]
 30B99 None of the above, but in this section
30Cxx Geometric function theory
 30C10 Polynomials
 30C15 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) (For algebraic theory, see 12D10; for real methods, see 26C10)
 30C20 Conformal mappings of special domains
 30C25 Covering theorems in conformal mapping theory
 30C30 Numerical methods in conformal mapping theory [See also 65E05]
 30C35 General theory of conformal mappings
 30C40 Kernel functions and applications
 30C45 Special classes of univalent and multivalent functions (starlike, convex, bounded rotation, etc.)
 30C50 Coefficient problems for univalent and multivalent functions
 30C55 General theory of univalent and multivalent functions
 30C62 Quasiconformal mappings in the plane
 30C65 Quasiconformal mappings in \mathbb{R}^n , other generalizations
 30C70 Extremal problems for conformal and quasiconformal mappings, variational methods
 30C75 Extremal problems for conformal and quasiconformal mappings, other methods
 30C80 Maximum principle; Schwarz's lemma, Lindelöf principle, analogues and generalizations; subordination
 30C85 Capacity and harmonic measure in the complex plane [See also 31A15]
 30C99 None of the above, but in this section
30Dxx Entire and meromorphic functions, and related topics
 30D05 Functional equations in the complex domain, iteration and composition of analytic functions [See also 34A20, 39-XX, 58F08, 58F23]
 30D10 Representations of entire functions by series and integrals
 30D15 Special classes of entire functions and growth estimates
 30D20 Entire functions, general theory
 30D30 Meromorphic functions, general theory
 30D35 Distribution of values, Nevanlinna theory
 30D40 Cluster sets, prime ends, boundary behavior
 30D45 Bloch functions, normal functions, normal families
 30D50 Blaschke products, bounded mean oscillation, bounded characteristic, bounded functions, functions with positive real part
 30D55 H^p -classes
 30D60 Quasi-analytic and other classes of functions
 30D99 None of the above, but in this section
30Exx Miscellaneous topics of analysis in the complex domain
 30E05 Moment problems, interpolation problems
 30E10 Approximation in the complex domain
 30E15 Asymptotic representations in the complex domain
 30E20 Integration, integrals of Cauchy type, integral representations of analytic functions [See also 45Exx]
 30E25 Boundary value problems [See also 45Exx]
 30E99 None of the above, but in this section
30Fxx Riemann surfaces
 30F10 Compact Riemann surfaces and uniformization [See also 14H15, 32G15]
 30F15 Harmonic functions on Riemann surfaces
 30F20 Classification theory of Riemann surfaces
 30F25 Ideal boundary theory
 30F30 Differentials on Riemann surfaces
 30F35 Fuchsian groups and automorphic functions [See also 11Fxx, 20H10, 22E40, 32Gxx, 32Nxx]
 30F40 Kleinian groups [See also 20H10]
 30F45 Conformal metrics (hyperbolic, Poincaré, distance functions)
 30F50 Klein surfaces
 30F60 Teichmüller theory [See also 32G15]
 30F99 None of the above, but in this section
30Gxx Generalized function theory
 30G06 Non-Archimedean function theory [See also 12J25]; nonstandard function theory [See also 03H05]
 30G12 Finely holomorphic functions and topological function theory
 30G20 Generalizations of Bers or Vekua type (pseudo-analytic, p -analytic, etc.)
 30G25 Discrete analytic functions
 30G30 Other generalizations of analytic functions (including abstract-valued functions)
 30G35 Functions of hypercomplex variables and generalized variables
 30G99 None of the above, but in this section
30H05 Spaces and algebras of analytic functions [See also 32E25, 46Exx, 46J15]
- 31-XX POTENTIAL THEORY** (For probabilistic potential theory, see 60J45)
 31-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 31-01 Instructional exposition (textbooks, tutorial papers, etc.)
 31-02 Research exposition (monographs, survey articles)
 31-03 Historical (must also be assigned at least one classification number from Section 01)
 31-04 Explicit machine computation and programs (not the theory of computation or programming)
 31-06 Proceedings, conferences, collections, etc.
31Axx Two-dimensional theory
 31A05 Harmonic, subharmonic, superharmonic functions
 31A10 Integral representations, integral operators, integral equations methods
 31A15 Potentials and capacity, harmonic measure, extremal length [See also 30C85]
 31A20 Boundary behavior (theorems of Fatou type, etc.)
 31A25 Boundary value and inverse problems
 31A30 Biharmonic, polyharmonic functions and equations, Poisson's equation
 31A35 Connections with differential equations
 31A99 None of the above, but in this section

- 31Bxx Higher-dimensional theory**
 31B05 Harmonic, subharmonic, superharmonic functions
 31B10 Integral representations, integral operators, integral equations methods
 31B15 Potentials and capacities, extremal length
 31B20 Boundary value and inverse problems
 31B25 Boundary behavior
 31B30 Biharmonic and polyharmonic equations and functions
 31B35 Connections with differential equations
 31B99 None of the above, but in this section
31Cxx Other generalizations
 31C05 Harmonic, subharmonic, superharmonic functions
 31C10 Pluriharmonic and plurisubharmonic functions [See also 32F05]
 31C12 Potential theory on Riemannian manifolds [See also 53C20; for Hodge theory, see 58A14]
 31C15 Potentials and capacities
 31C20 Discrete potential theory and numerical methods
 31C25 Dirichlet spaces
 31C35 Martin boundary theory [See also 60J50]
 31C40 Fine potential theory
 31C45 Other generalizations (nonlinear potential theory, etc.)
 31C99 None of the above, but in this section
31D05 Axiomatic potential theory
- 32-XX SEVERAL COMPLEX VARIABLES AND ANALYTIC SPACES**
{For infinite-dimensional holomorphy, see also 46G20, 58B12}
 32-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 32-01 Instructional exposition (textbooks, tutorial papers, etc.)
 32-02 Research exposition (monographs, survey articles)
 32-03 Historical (must also be assigned at least one classification number from Section 01)
 32-04 Explicit machine computation and programs (not the theory of computation or programming)
 32-06 Proceedings, conferences, collections, etc.
32Axx Holomorphic functions of several complex variables
 32A05 Power series, series of functions
 32A07 Special domains (Reinhardt, Hartogs, tube domains, etc.)
 32A10 Holomorphic functions
 32A15 Entire functions
 32A17 Special families of functions (e.g. normal families)
 32A20 Meromorphic functions
 32A22 Nevanlinna theory (local); growth estimates; other inequalities {For geometric theory, see 32H25, 32H30}
 32A25 Integral representation
 32A27 Local theory of residues [See also 32C30]
 32A30 Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30) {For functions of several hypercomplex variables, see 30G35}
 32A35 H^p -spaces [See also 32M15, 42B30, 43A85, 46J15]
 32A37 Other spaces of holomorphic functions (e.g. bounded mean oscillation (BMOA), vanishing mean oscillation (VMOA) in n dimensions) [See also 46Exx]
 32A40 Boundary behavior
 32A45 Hyperfunctions [See also 46F15]
 32A99 None of the above, but in this section
32Bxx Local analytic geometry [See also 13-XX and 14-XX]
 32B05 Analytic algebras and generalizations, preparation theorems
 32B10 Germs of analytic sets
 32B15 Analytic subsets of affine space
 32B20 Semi-analytic sets and subanalytic sets [See also 14P15]
 32B25 Triangulation and related questions
 32B99 None of the above, but in this section
32Cxx General theory of analytic spaces
 32C05 Real-analytic manifolds, real-analytic spaces [See also 14Pxx, 58A07]
 32C07 Real-analytic sets, complex Nash functions [See also 14P15, 14P20]
 32C10 Complex manifolds {For almost complex manifolds, see 53C15}
 32C11 Complex supergeometry [See also 14A22, 14M30, 58A50]
 32C15 Complex spaces
 32C16 CR-manifolds
 32C17 Kähler geometry {For differential-geometric methods, see 53C55}
 32C18 Topology of analytic spaces
 32C20 Normal analytic spaces
 32C25 Analytic subsets and submanifolds
 32C30 Integration on analytic sets and spaces, currents {For local theory, see 32A25 or 32A27}
 32C35 Analytic sheaves and cohomology groups [See also 14Fxx, 18F20, 55N30]
 32C36 Local cohomology of analytic spaces
 32C37 Duality theorems
 32C38 Sheaves of differential operators and their modules [See also 14F10, 16S32, 35A27, 58G07]
 32C81 Applications to physics
 32C99 None of the above, but in this section
- 32Dxx Analytic continuation**
 32D05 Domains of holomorphy
 32D10 Envelopes of holomorphy
 32D15 Continuation of analytic objects
 32D20 Removable singularities
 32D99 None of the above, but in this section
32Exx Holomorphic convexity
 32E05 Holomorphically convex complex spaces, reduction theory
 32E10 Stein spaces, Stein manifolds
 32E20 Polynomial convexity
 32E25 Algebras of holomorphic functions [See also 30H05, 46J10, 46J15]
 32E30 Holomorphic and polynomial approximation, Runge pairs, interpolation
 32E35 Global boundary behavior of holomorphic functions
 32E99 None of the above, but in this section
32Fxx Geometric convexity, partial differential operators
 32F05 Plurisubharmonic functions and generalizations [See also 31C10]
 32F07 Complex Monge-Ampère operator
 32F10 q -convexity, q -concavity
 32F15 Pseudoconvex domains
 32F20 $\bar{\partial}$ - and $\bar{\partial}_b$ -Neumann problems [See also 35N15]
 32F25 Real submanifolds in complex manifolds
 32F30 Pseudoconvex manifolds
 32F40 CR structures, (tangential) CR operators and generalizations
 32F99 None of the above, but in this section
32Gxx Deformations of analytic structures
 32G05 Deformations of complex structures [See also 13D10, 16S80, 58H10, 58H15]
 32G07 Deformations of special (e.g. CR) structures
 32G08 Deformations of fiber bundles
 32G10 Deformations of submanifolds and subspaces
 32G13 Analytic moduli problems {For algebraic moduli problems, see 14D20, 14D22, 14H10, 14J10} [See also 14H15, 14J15]
 32G15 Moduli of Riemann surfaces, Teichmüller theory [See also 14H15, 30Fxx]
 32G20 Period matrices, variation of Hodge structure; degenerations [See also 14D05, 14D07, 14K30]
 32G34 Moduli and deformations for ordinary differential equations [See also 34A20]
 32G81 Applications to physics
 32G99 None of the above, but in this section
32Hxx Holomorphic mappings and correspondences
 32H02 Holomorphic mappings, (holomorphic) embeddings and related questions
 32H04 Meromorphic mappings
 32H10 Bergman kernel function, representative domains
 32H15 Invariant metrics and pseudodistances
 32H20 Hyperbolic complex manifolds
 32H25 Picard-type theorems and generalizations {For function-theoretic properties, see 32A22}
 32H30 Value distribution theory in higher dimensions {For function-theoretic properties, see 32A22}
 32H35 Proper mappings, finiteness theorems
 32H40 Boundary regularity of holomorphic maps
 32H50 Iteration problems
 32H99 None of the above, but in this section
32Jxx Compact analytic spaces {For Riemann surfaces, see 14Hxx, 30Fxx; for algebraic theory, see 14Jxx}
 32J05 Compactification of analytic spaces
 32J10 Algebraic dependence theorems
 32J15 Compact surfaces
 32J17 Compact 3-folds
 32J18 Compact n -folds ($n \geq 4$)
 32J20 Algebraicity criteria
 32J25 Transcendental methods of algebraic geometry [See also 14C30]
 32J27 Compact Kähler manifolds: generalizations, classification
 32J81 Applications to physics
 32J99 None of the above, but in this section
32Kxx Generalizations of analytic spaces (should also be assigned at least one other classification number in this section)
 32K05 Banach analytic spaces [See also 58Bxx]
 32K07 Formal and graded complex spaces [See also 58C50]
 32K15 Differentiable functions on analytic spaces, differentiable spaces [See also 58C25]
 32K99 None of the above, but in this section
32Lxx Holomorphic fiber spaces [See also 55Rxx]
 32L05 Holomorphic fiber bundles and generalizations
 32L07 Hermite-Einstein bundles; Kähler-Einstein metrics [See also 53C07]
 32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results [See also 14F05, 18F20, 55N30]
 32L15 Bundle convexity [See also 32F10]
 32L20 Vanishing theorems

- 32L25 Twistor theory, double fibrations
 32L30 Holomorphic foliations [See also 58F18]
 32L81 Applications to physics
 32L99 None of the above, but in this section
32Mxx Complex spaces with a group of automorphisms
 32M05 Complex Lie groups, automorphism groups of complex spaces [See also 22E10]
 32M10 Homogeneous complex manifolds [See also 14M17, 57T15]
 32M12 Almost homogeneous manifolds and spaces [See also 14M17]
 32M15 Hermitian symmetric spaces, bounded symmetric domains [See also 22E10, 22E40, 53C35, 57T15]
 32M99 None of the above, but in this section
32Nxx Automorphic functions [See also 11Fxx, 20H10, 22E40, 30F35]
 32N05 General theory of automorphic functions of several complex variables
 32N10 Automorphic forms
 32N15 Automorphic functions in symmetric domains
 32N99 None of the above, but in this section
32P05 Non-Archimedean complex analysis (should also be assigned at least one other classification number from Section 32 describing the type of problem)
32Sxx Singularities
 32S05 Local singularities [See also 14B05]
 32S10 Invariants of analytic local rings
 32S15 Equisingularity (topological and analytic) [See also 14E15]
 32S20 Global theory of singularities; cohomological properties [See also 14E15]
 32S25 (Hyper-) surface singularities [See also 14J17]
 32S30 Deformations of singularities; vanishing cycles [See also 14B07]
 32S35 Mixed Hodge theory of singular varieties [See also 14C30, 14D07]
 32S40 Monodromy; relations with differential equations and D -modules
 32S45 Modifications; resolution of singularities [See also 14E15]
 32S50 Topological aspects: Lefschetz theorems, topological classification, invariants
 32S55 Milnor fibration; relations with knot theory [See also 57M25, 57Q45]
 32S60 Stratifications; constructible sheaves; intersection cohomology [See also 58C27]
 32S65 Singularities of holomorphic vector fields
 32S70 Other operations on singularities
33-XX SPECIAL FUNCTIONS (33-XX deals with the properties of functions as functions. For orthogonal functions, see also 42Cxx; for aspects of combinatorics, see 05Axx; for number-theoretic aspects, see 11-XX; for representation theory, see 22Exx)
 33-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 33-01 Instructional exposition (textbooks, tutorial papers, etc.)
 33-02 Research exposition (monographs, survey articles)
 33-03 Historical (must also be assigned at least one classification number from Section 01)
 33-04 Explicit machine computation and programs (not the theory of computation or programming)
 33-06 Proceedings, conferences, collections, etc.
33Bxx Elementary classical functions
 33B10 Exponential and trigonometric functions
 33B15 Gamma, beta and polygamma functions
 33B20 Incomplete beta and gamma functions (error functions, probability integrals, Fresnel integrals)
 33B99 None of the above, but in this section
33Cxx Hypergeometric functions
 33C05 Classical hypergeometric functions, ${}_2F_1$
 33C10 Bessel and Airy functions, cylinder functions, ${}_0F_1$
 33C15 Confluent hypergeometric functions, Whittaker functions, ${}_1F_1$
 33C20 Generalized hypergeometric series, ${}_pF_q$
 33C45 Orthogonal polynomials and functions (Chebyshev, Legendre, Gegenbauer, Jacobi, Laguerre, Hermite, Hahn, etc.)
 33C50 Orthogonal polynomials and functions in several variables
 33C55 Spherical functions, spherical harmonics, ultraspherical polynomials
 33C60 Hypergeometric integrals and functions defined by them (E , G and H functions)
 33C65 Appell, Horn and Lauricella functions
 33C70 Other hypergeometric functions and integrals in several variables
 33C75 Elliptic integrals as hypergeometric functions
 33C80 Connections with groups, algebras, root systems and related topics
 33C90 Applications
 33C99 None of the above, but in this section
33Dxx Basic hypergeometric functions
 33D05 q -gamma functions, q -beta functions and integrals
 33D10 Basic theta functions
 33D15 Basic hypergeometric functions in one variable
 33D20 Generalized basic hypergeometric series
 33D45 Basic orthogonal polynomials and functions in one and several variables
 33D55 Basic spherical functions, spherical harmonics (continuous and discrete)
 33D60 Basic hypergeometric integrals and functions defined by them
 33D65 Bibasic functions and multiple bases
 33D70 Other basic hypergeometric functions and integrals in several variables
 33D80 Connections with groups, algebras, and related topics
 33D90 Applications
 33D99 None of the above, but in this section
33Exx Other special functions
 33E05 Elliptic functions and integrals
 33E10 Lamé, Mathieu, and spheroidal wave functions
 33E15 Other wave functions
 33E20 Other functions defined by series and integrals
 33E30 Other functions coming from differential, difference and integral equations
 33E99 None of the above, but in this section
34-XX ORDINARY DIFFERENTIAL EQUATIONS
 34-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 34-01 Instructional exposition (textbooks, tutorial papers, etc.)
 34-02 Research exposition (monographs, survey articles)
 34-03 Historical (must also be assigned at least one classification number from Section 01)
 34-04 Explicit machine computation and programs (not the theory of computation or programming)
 34-06 Proceedings, conferences, collections, etc.
34Axx General theory
 34A05 Explicit solutions and reductions
 34A09 Implicit equations
 34A12 Initial value problems, existence, uniqueness, continuous dependence and continuation of solutions
 34A20 Differential equations in the complex domain [See also 30D05, 32G34]
 34A25 Analytical theory: series, transformations, transforms, operational calculus, etc. [See also 44-XX, 47E05]
 34A26 Geometric methods in differential equations
 34A30 Linear equations and systems
 34A34 Nonlinear equations and systems, general
 34A35 Differential equations of infinite order
 34A37 Differential equations with impulses
 34A40 Differential inequalities
 34A45 Theoretical approximation of solutions
 34A46 Theoretical solution methods other than approximations
 34A47 Bifurcation
 34A50 Numerical approximation of solutions (For numerical analysis, see 65Lxx)
 34A55 Inverse problems
 34A60 Equations with multivalued right-hand sides [See also 49J24, 49K24]
 34A65 Stiff equations
 34A99 None of the above, but in this section
34Bxx Boundary value problems (For ordinary differential operators, see 34Lxx)
 34B05 Linear equations
 34B10 Multipoint boundary value problems
 34B15 Nonlinear boundary value problems
 34B20 Weyl theory and its generalizations
 34B24 Sturm-Liouville theory [See also 34Lxx]
 34B27 Green functions
 34B30 Special equations (Mathieu, Hill, Bessel, etc.)
 34B99 None of the above, but in this section
34Cxx Qualitative theory [See also 58Fxx]
 34C05 Location of integral curves, singular points, limit cycles
 34C10 Oscillation theory, zeros, disconjugacy and comparison theory
 34C11 Growth, boundedness, comparison of solutions
 34C15 Nonlinear oscillations
 34C20 Transformation and reduction of equations and systems, normal forms
 34C23 Bifurcation [See mainly 58F14]
 34C25 Periodic solutions
 34C27 Almost-periodic solutions
 34C28 Other types of "recurrent" solutions
 34C29 Averaging method
 34C30 Manifolds of solutions
 34C35 Dynamical systems [See also 54H20, 58Fxx, 70-XX]
 34C37 Homoclinic and heteroclinic solutions [See also 58F15]
 34C40 Equations and systems on manifolds [See mainly 58Fxx, 58Gxx]
 34C45 Method of integral manifolds
 34C50 Method of accelerated convergence
 34C99 None of the above, but in this section
34Dxx Stability theory [See also 58F10, 93Dxx]
 34D05 Asymptotic properties
 34D08 Lyapunov exponents
 34D10 Perturbations
 34D15 Singular perturbations

- 34D20 Lyapunov stability
 34D25 Popov-type stability
 34D30 Structural stability and analogous concepts [See also 58F10, 58F12]
 34D35 Stability of manifolds of solutions
 34D40 Ultimate boundedness
 34D45 Attractors
 34D99 None of the above, but in this section
34Exx Asymptotic theory
 34E05 Asymptotic expansions
 34E10 Perturbations, asymptotics
 34E15 Singular perturbations, general theory
 34E20 Singular perturbations, turning point theory, WKB methods
 34E99 None of the above, but in this section
34F05 Equations and systems with randomness [See also 34K50, 60H10, 93E03]
34Gxx Differential equations in abstract spaces [See also 58D25]
 34G10 Linear equations [See also 47Axx, 47Bxx, 47D06, 47D09]
 34G20 Nonlinear equations [See also 47Hxx]
 34G99 None of the above, but in this section
34H05 Control problems [See also 49J25, 49K25, 93C15]
34Kxx Functional-differential and differential-difference equations, with or without deviating arguments
 34K05 General theory
 34K10 Boundary value problems
 34K15 Qualitative theory
 34K20 Stability theory
 34K25 Asymptotic theory
 34K30 Equations in abstract spaces [See also 34Gxx]
 34K35 Control problems [See also 49J25, 49K25, 93C15]
 34K40 Neutral equations
 34K50 Stochastic delay equations [See also 34F05, 60Hxx]
 34K99 None of the above, but in this section
34Lxx Ordinary differential operators [See also 47E05]
 34L05 General spectral theory
 34L10 Eigenfunction expansions, completeness of eigenfunctions
 34L15 Estimation of eigenvalues, upper and lower bounds
 34L20 Asymptotic distribution of eigenvalues, asymptotic theory of eigenfunctions
 34L25 Scattering theory
 34L30 Nonlinear ordinary differential operators
 34L40 Particular operators (Dirac, one-dimensional Schrödinger, etc.)
 34L99 None of the above, but in this section
35-XX PARTIAL DIFFERENTIAL EQUATIONS
 35-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 35-01 Instructional exposition (textbooks, tutorial papers, etc.)
 35-02 Research exposition (monographs, survey articles)
 35-03 Historical (must also be assigned at least one classification number from Section 01)
 35-04 Explicit machine computation and programs (not the theory of computation or programming)
 35-06 Proceedings, conferences, collections, etc.
35Axx General theory
 35A05 General existence and uniqueness theorems
 35A07 Local existence and uniqueness theorems [See also 35H05, 35Sxx]
 35A08 Fundamental solutions
 35A10 Cauchy-Kovalevskaya theorems
 35A15 Variational methods
 35A20 Analytic methods, singularities
 35A22 Transform methods (e.g. integral transforms)
 35A25 Other special methods
 35A27 Microlocal methods; methods of sheaf theory and homological algebra in PDE [See also 32C38, 58G07]
 35A30 Geometric theory, characteristics, transformations [See also 58G35, 58G37]
 35A35 Theoretical approximation to solutions
 35A40 Numerical approximation to solutions {For numerical analysis, see 65Mxx, 65Nxx, 65P05}
 35A99 None of the above, but in this section
35Bxx Qualitative properties of solutions
 35B05 General behavior of solutions of PDE (comparison theorems; oscillation, zeros and growth of solutions; mean value theorems)
 35B10 Periodic solutions
 35B15 Almost periodic solutions
 35B20 Perturbations
 35B25 Singular perturbations
 35B27 Homogenization; partial differential equations in media with periodic structure [See also 73B27, 76D30]
 35B30 Dependence of solutions of PDE on initial and boundary data, parameters [See also 58F14]
 35B32 Bifurcation [See also 58F14]
 35B35 Stability, boundedness
 35B37 PDE in connection with control problems [See also 49J20, 49K20, 93C20]
 35B40 Asymptotic behavior of solutions
 35B45 A priori estimates
 35B50 Maximum principles
 35B60 Continuation and prolongation of solutions of PDE [See also 58A15, 58A17, 58Hxx]
 35B65 Smoothness/regularity of solutions of PDE
 35B99 None of the above, but in this section
35Cxx Representations of solutions
 35C05 Solutions in closed form
 35C10 Series solutions, expansion theorems
 35C15 Integral representations of solutions of PDE
 35C20 Asymptotic expansions
 35C99 None of the above, but in this section
35Dxx Generalized solutions of partial differential equations
 35D05 Existence of generalized solutions
 35D10 Regularity of generalized solutions
 35D99 None of the above, but in this section
35Exx Equations and systems with constant coefficients [See also 35N05]
 35E05 Fundamental solutions
 35E10 Convexity properties
 35E15 Initial value problems
 35E20 General theory
 35E99 None of the above, but in this section
35Fxx General first-order equations and systems
 35F05 General theory of linear first-order PDE
 35F10 Initial value problems for linear first-order PDE, linear evolution equations
 35F15 Boundary value problems for linear first-order PDE
 35F20 General theory of nonlinear first-order PDE
 35F25 Initial value problems for nonlinear first-order PDE, nonlinear evolution equations
 35F30 Boundary value problems for nonlinear first-order PDE
 35F99 None of the above, but in this section
35Gxx General higher-order equations and systems
 35G05 General theory of linear higher-order PDE
 35G10 Initial value problems for linear higher-order PDE, linear evolution equations
 35G15 Boundary value problems for linear higher-order PDE
 35G20 General theory of nonlinear higher-order PDE
 35G25 Initial value problems for nonlinear higher-order PDE, nonlinear evolution equations
 35G30 Boundary value problems for nonlinear higher-order PDE
 35G99 None of the above, but in this section
35H05 Hypoelliptic equations and systems [See also 58Gxx]
35Jxx Partial differential equations of elliptic type [See also 58G05, 58G10]
 35J05 Laplace equation, reduced wave equation (Helmholtz), Poisson equation [See also 31Axx, 31Bxx]
 35J10 Schrödinger operator [See also 35Pxx]
 35J15 General theory of second-order elliptic equations
 35J20 Variational methods for second-order elliptic equations
 35J25 Boundary value problems for second-order elliptic equations
 35J30 General theory of higher-order elliptic equations [See also 31A30, 31B30]
 35J35 Variational methods for higher-order elliptic equations
 35J40 Boundary value problems for higher-order elliptic equations
 35J45 General theory of elliptic systems of PDE
 35J50 Variational methods for elliptic systems
 35J55 Boundary value problems for elliptic systems
 35J60 Nonlinear PDE of elliptic type
 35J65 Nonlinear boundary value problems for linear elliptic PDE; boundary value problems for nonlinear elliptic PDE
 35J67 Boundary values of solutions to elliptic PDE
 35J70 Elliptic partial differential equations of degenerate type
 35J85 Unilateral problems and variational inequalities for elliptic PDE [See also 35R35, 49J40]
 35J99 None of the above, but in this section
35Kxx Parabolic equations and systems [See also 35Bxx, 35Dxx, 35R30, 35R35, 58G11]
 35K05 Heat equation
 35K10 General theory of second-order parabolic equations
 35K15 Initial value problems for second-order parabolic equations
 35K20 Boundary value problems for second-order parabolic equations
 35K22 Evolution equations (any order in the spatial derivatives) [See also 58D25]
 35K25 General theory of higher-order parabolic equations
 35K30 Initial value problems for higher-order parabolic equations
 35K35 Boundary value problems for higher-order parabolic equations
 35K40 General theory of parabolic systems of PDE
 35K45 Initial value problems for parabolic systems
 35K50 Boundary value problems for parabolic systems

- 35K55 Nonlinear PDE of parabolic type
 35K57 Reaction-diffusion equations
 35K60 Nonlinear boundary value problems for linear parabolic PDE; boundary value problems for nonlinear parabolic PDE
 35K65 Parabolic partial differential equations of degenerate type
 35K70 Ultraparabolic, pseudoparabolic PDE, etc.
 35K85 Unilateral problems and variational inequalities for parabolic PDE [See also 35R35, 49J40]
 35K99 None of the above, but in this section
35Lxx Partial differential equations of hyperbolic type [See also 58G16]
 35L05 Wave equation
 35L10 General theory of second-order hyperbolic equations
 35L15 Initial value problems for second-order hyperbolic equations
 35L20 Boundary value problems for second-order hyperbolic equations
 35L25 General theory of higher-order hyperbolic equations
 35L30 Initial value problems for higher-order hyperbolic equations
 35L35 Boundary value problems for higher-order hyperbolic equations
 35L40 General theory of hyperbolic systems of first-order PDE
 35L45 Initial value problems for hyperbolic systems of first-order PDE
 35L50 Boundary value problems for hyperbolic systems of first-order PDE
 35L55 Hyperbolic systems of higher-order PDE
 35L60 Nonlinear first-order PDE of hyperbolic type
 35L65 Conservation laws
 35L67 Shocks and singularities [See also 58C27, 76L05]
 35L70 Nonlinear second-order PDE of hyperbolic type
 35L75 Nonlinear hyperbolic PDE of higher (> 2) order
 35L80 Hyperbolic PDE of degenerate type
 35L85 Unilateral problems; variational inequalities for hyperbolic PDE [See also 35R35, 49J40]
 35L99 None of the above, but in this section
35Mxx Partial differential equations of special type (mixed, composite, etc.) [For degenerate types, see 35J70, 35K65, 35L80]
 35M10 PDE of mixed type
 35M20 PDE of composite type
 35M99 None of the above, but in this section
35Nxx Overdetermined systems [See also 58G05, 58G07, 58Hxx]
 35N05 Overdetermined systems with constant coefficients
 35N10 Overdetermined systems with variable coefficients (general)
 35N15 $\bar{\partial}$ -Neumann problem and generalizations; formal complexes [See also 32F20 and 58G05]
 35N99 None of the above, but in this section
35Pxx Spectral theory and eigenvalue problems for partial differential operators [See also 47Axx, 47Bxx, 47F05]
 35P05 General spectral theory of PDE
 35P10 Completeness of eigenfunctions, eigenfunction expansions for PDO
 35P15 Estimation of eigenvalues, upper and lower bounds
 35P20 Asymptotic distribution of eigenvalues and eigenfunctions for PDO
 35P25 Scattering theory for PDE [See also 47A40]
 35P30 Nonlinear eigenvalue problems, nonlinear spectral theory for PDO
 35P99 None of the above, but in this section
35Qxx Equations of mathematical physics and other areas of application [See also 35J05, 35J10, 35K05, 35L05]
 35Q05 Euler-Poisson-Darboux equation and generalizations
 35Q15 Riemann-Hilbert problems [See also 30E25, 31A25, 31B20]
 35Q30 Stokes and Navier-Stokes equations [See also 76D05, 76D07, 76N10]
 35Q35 Other equations arising in fluid mechanics
 35Q40 Equations from quantum mechanics
 35Q51 Solitons [See also 58F07]
 35Q53 KdV-like equations (Korteweg-de Vries, Burgers, sine-Gordon, sinh-Gordon, etc.) [See also 58F07]
 35Q55 NLS-like (nonlinear Schrödinger) equations [See also 58F07]
 35Q58 Other completely integrable equations [See also 58F07]
 35Q60 Equations of electromagnetic theory and optics
 35Q72 Other equations from mechanics
 35Q75 PDE in relativity
 35Q80 Applications of PDE in areas other than physics
 35Q99 None of the above, but in this section
35Rxx Miscellaneous topics involving partial differential equations [For equations on manifolds, see 58Gxx; for manifolds of solutions, see 58Bxx; for stochastic PDE, see also 60H15]
 35R05 PDE with discontinuous coefficients or data
 35R10 Partial functional-differential or differential-difference equations, with or without deviating arguments
 35R15 Partial differential equations on infinite-dimensional (e.g. function) spaces (= PDE in infinitely many variables) [See also 46Gxx, 58D25]
 35R20 Partial operator-differential equations (i.e. PDE on finite-dimensional spaces for abstract space valued functions) [See also 34Gxx, 47A50, 47D03, 47D06, 47D09, 47H15, 47H20]
 35R25 Improperly posed problems for PDE
 35R30 Inverse problems (undetermined coefficients, etc.) for PDE
 35R35 Free boundary problems for PDE
 35R45 Partial differential inequalities
 35R50 Partial differential equations of infinite order
 35R60 Partial differential equations with randomness [See also 60H15]
 35R70 PDE with multivalued right-hand sides
 35R99 None of the above, but in this section
35Sxx Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58G15]
 35S05 General theory of Ψ DO
 35S10 Initial value problems for Ψ DO
 35S15 Boundary value problems for Ψ DO
 35S30 Fourier integral operators
 35S35 Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58G07]
 35S50 Paradiifferential operators
 35S99 None of the above, but in this section
39-XX FINITE DIFFERENCES AND FUNCTIONAL EQUATIONS
 39-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 39-01 Instructional exposition (textbooks, tutorial papers, etc.)
 39-02 Research exposition (monographs, survey articles)
 39-03 Historical (must also be assigned at least one classification number from Section 01)
 39-04 Explicit machine computation and programs (not the theory of computation or programming)
 39-06 Proceedings, conferences, collections, etc.
39Axx Difference equations [For dynamical systems, see 58Fxx]
 39A05 General
 39A10 Difference equations [See also 33Dxx]
 39A11 Stability of difference equations
 39A12 Discrete version of topics in analysis
 39A70 Difference operators [See also 47B39]
 39A99 None of the above, but in this section
39Bxx Functional equations [See also 30D05]
 39B05 General
 39B12 Iteration theory, iterative and composite equations [See also 26A18, 30D05, 58F08]
 39B22 Equations for real functions
 39B32 Equations for complex functions [See also 30D05]
 39B42 Matrix and operator equations
 39B52 Equations for functions with more general domains and/or ranges
 39B62 Systems of functional equations
 39B72 Inequalities involving unknown functions [See also 26A51, 26Dxx]
 39B99 None of the above, but in this section
40-XX SEQUENCES, SERIES, SUMMABILITY
 40-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 40-01 Instructional exposition (textbooks, tutorial papers, etc.)
 40-02 Research exposition (monographs, survey articles)
 40-03 Historical (must also be assigned at least one classification number from Section 01)
 40-04 Explicit machine computation and programs (not the theory of computation or programming)
 40-06 Proceedings, conferences, collections, etc.
40Axx Convergence and divergence of infinite limiting processes
 40A05 Convergence and divergence of series and sequences
 40A10 Convergence and divergence of integrals
 40A15 Convergence and divergence of continued fractions [See also 30B70]
 40A20 Convergence and divergence of infinite products
 40A25 Approximation to limiting values (summation of series, etc.) [For the Euler-Maclaurin summation formula, see 65B15]
 40A30 Convergence and divergence of series and sequences of functions
 40A99 None of the above, but in this section
40B05 Multiple sequences and series (should also be assigned at least one other classification number in this section)
40Cxx General summability methods
 40C05 Matrix methods
 40C10 Integral methods
 40C15 Function-theoretic methods (including power series methods and semicontinuous methods)
 40C99 None of the above, but in this section
40Dxx Direct theorems on summability
 40D05 General theorems
 40D09 Structure of summability fields
 40D10 Tauberian constants and oscillation limits
 40D15 Convergence factors and summability factors
 40D20 Summability and bounded fields of methods
 40D25 Inclusion and equivalence theorems
 40D99 None of the above, but in this section
40Exx Inversion theorems
 40E05 Tauberian theorems, general
 40E10 Growth estimates
 40E15 Lacunary inversion theorems
 40E20 Tauberian constants
 40E99 None of the above, but in this section

- 40F05 Absolute and strong summability
 40Gxx Special methods of summability
 40G05 Cesàro, Euler, Nörlund and Hausdorff methods
 40G10 Abel, Borel and power series methods
 40G99 None of the above, but in this section
 40H05 Functional analytic methods in summability
 40J05 Summability in abstract structures [See also 43A55, 46A35, 46B15]
- 41-XX APPROXIMATIONS AND EXPANSIONS {For all approximation theory in the complex domain, see 30E05 and 30E10; for all trigonometric approximation and interpolation, see 42A10 and 42A15; for numerical approximation, see 65Dxx}
- 41-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 41-01 Instructional exposition (textbooks, tutorial papers, etc.)
 41-02 Research exposition (monographs, survey articles)
 41-03 Historical (must also be assigned at least one classification number from Section 01)
 41-04 Explicit machine computation and programs (not the theory of computation or programming)
 41-06 Proceedings, conferences, collections, etc.
 41A05 Interpolation [See also 42A15 and 65D05]
 41A10 Approximation by polynomials {For approximation by trigonometric polynomials, see 42A10}
 41A15 Spline approximation
 41A17 Inequalities in approximation (Bernstein-, Jackson-, Nikol'skii-type inequalities)
 41A20 Approximation by rational functions
 41A21 Padé approximation
 41A25 Rate of convergence, degree of approximation
 41A27 Inverse theorems
 41A28 Simultaneous approximation
 41A29 Approximation with constraints
 41A30 Approximation by other special function classes
 41A35 Approximation by operators (in particular, by integral operators)
 41A36 Approximation by positive operators
 41A40 Saturation
 41A44 Best constants
 41A45 Approximation by arbitrary linear expressions
 41A46 Approximation by arbitrary nonlinear expressions; widths and entropy
 41A50 Best approximation, Chebyshev systems
 41A52 Uniqueness of best approximation
 41A55 Approximate quadratures
 41A58 Series expansions (e.g. Taylor, Lidstone series, but not Fourier series)
 41A60 Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15]
 41A63 Multidimensional problems (should also be assigned at least one other classification number in this section)
 41A65 Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)
 41A80 Remainders in approximation formulas
 41A99 Miscellaneous topics
- 42-XX FOURIER ANALYSIS
 42-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 42-01 Instructional exposition (textbooks, tutorial papers, etc.)
 42-02 Research exposition (monographs, survey articles)
 42-03 Historical (must also be assigned at least one classification number from Section 01)
 42-04 Explicit machine computation and programs (not the theory of computation or programming)
 42-06 Proceedings, conferences, collections, etc.
 42Axx Fourier analysis in one variable
 42A05 Trigonometric polynomials, inequalities, extremal problems
 42A10 Trigonometric approximation
 42A15 Trigonometric interpolation
 42A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30}
 42A20 Convergence of Fourier and trigonometric series
 42A24 Summability of Fourier and trigonometric series
 42A28 Absolute convergence, absolute summability
 42A32 Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)
 42A38 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type
 42A45 Multipliers
 42A50 Conjugate functions, conjugate series, singular integrals
 42A55 Lacunary series of trigonometric and other functions; Riesz products
 42A61 Probabilistic methods
 42A63 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization
 42A65 Completeness of sets of functions
 42A70 Trigonometric moment problems
 42A75 Classical almost periodic functions, mean periodic functions [See also 43A60]
 42A82 Positive definite functions
 42A85 Convolution, factorization
 42A99 None of the above, but in this section
 42Bxx Fourier analysis in several variables {For automorphic theory, see mainly 11F30}
 42B05 Fourier series and coefficients
 42B08 Summability
 42B10 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type
 42B15 Multipliers
 42B20 Singular integrals (Calderón-Zygmund, etc.)
 42B25 Maximal functions, Littlewood-Paley theory
 42B30 H^p -spaces
 42B99 None of the above, but in this section
 42Cxx Nontrigonometric Fourier analysis
 42C05 Orthogonal functions and polynomials, general theory [See also 33C45, 33C50, 33D45]
 42C10 Fourier series in special orthogonal functions (Legendre polynomials, Walsh functions, etc.)
 42C15 Series of general orthogonal functions, generalized Fourier expansions, nonorthogonal expansions
 42C20 Rearrangements and other transformations of Fourier and other orthogonal series
 42C25 Uniqueness and localization for orthogonal series
 42C30 Completeness of sets of functions
 42C99 None of the above, but in this section
- 43-XX ABSTRACT HARMONIC ANALYSIS {For other analysis on topological and Lie groups, see 22Exx}
 43-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 43-01 Instructional exposition (textbooks, tutorial papers, etc.)
 43-02 Research exposition (monographs, survey articles)
 43-03 Historical (must also be assigned at least one classification number from Section 01)
 43-04 Explicit machine computation and programs (not the theory of computation or programming)
 43-06 Proceedings, conferences, collections, etc.
 43A05 Measures on groups and semigroups, etc.
 43A07 Means on groups, semigroups, etc.; amenable groups
 43A10 Measure algebras on groups, semigroups, etc.
 43A15 L^p -spaces and other function spaces on groups, semigroups, etc.
 43A17 Analysis on ordered groups, H^p -theory
 43A20 L^1 -algebras on groups, semigroups, etc.
 43A22 Homomorphisms and multipliers of function spaces on groups, semigroups, etc.
 43A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups
 43A30 Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.
 43A32 Other transforms and operators of Fourier type
 43A35 Positive definite functions on groups, semigroups, etc.
 43A40 Character groups and dual objects
 43A45 Spectral synthesis on groups, semigroups, etc.
 43A46 Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.)
 43A50 Convergence of Fourier series and of inverse transforms
 43A55 Summability methods on groups, semigroups, etc. [See also 40J05]
 43A60 Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost automorphic functions
 43A62 Hypergroups
 43A65 Representations of groups, semigroups, etc. [See also 22A10, 22A20, 22Dxx, 22E45]
 43A70 Analysis on specific locally compact abelian groups [See also 11R56, 22B05]
 43A75 Analysis on specific compact groups
 43A77 Analysis on general compact groups
 43A80 Analysis on other specific Lie groups [See also 22Exx]
 43A85 Analysis on homogeneous spaces
 43A90 Spherical functions [See also 22E45, 22E46, 33C65, 33D55]
 43A95 Categorical methods [See also 46Mxx]
 43A99 Miscellaneous topics
- 44-XX INTEGRAL TRANSFORMS, OPERATIONAL CALCULUS {For fractional derivatives and integrals, see 26A33. For Fourier transforms, see 42A38, 42B10. For integral transforms in distribution spaces, see 46F12. For numerical methods, see 65R10}
 44-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 44-01 Instructional exposition (textbooks, tutorial papers, etc.)
 44-02 Research exposition (monographs, survey articles)

- 44-03 Historical (must also be assigned at least one classification number from Section 01)
- 44-04 Explicit machine computation and programs (not the theory of computation or programming)
- 44-06 Proceedings, conferences, collections, etc.
- 44A05 General transforms [See also 42A38]
- 44A10 Laplace transform
- 44A12 Radon transform [See also 92C55]
- 44A15 Special transforms (Legendre, Hilbert, etc.)
- 44A20 Transforms of special functions
- 44A30 Multiple transforms
- 44A35 Convolution
- 44A40 Calculus of Mikusiński and other operational calculi
- 44A45 Classical operational calculus
- 44A55 Discrete operational calculus
- 44A60 Moment problems
- 44A99 Miscellaneous topics
- 45-XX INTEGRAL EQUATIONS**
- 45-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 45-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 45-02 Research exposition (monographs, survey articles)
- 45-03 Historical (must also be assigned at least one classification number from Section 01)
- 45-04 Explicit machine computation and programs (not the theory of computation or programming)
- 45-06 Proceedings, conferences, collections, etc.
- 45A05 Linear integral equations**
- 45B05 Fredholm integral equations**
- 45C05 Eigenvalue problems** [See also 34Lxx, 35Pxx, 45P05, 47A75]
- 45D05 Volterra integral equations** [See also 34A12]
- 45Exx Singular integral equations** [See also 30E20, 30E25, 44A15, 44A35]
- 45E05 Integral equations with kernels of Cauchy type [See also 35J15]
- 45E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [See also 47B35]
- 45E99 None of the above, but in this section
- 45Fxx Systems of linear integral equations**
- 45F05 Systems of nonsingular linear integral equations
- 45F10 Dual, triple, etc., integral and series equations
- 45F15 Systems of singular linear integral equations
- 45F99 None of the above, but in this section
- 45Gxx Nonlinear integral equations** [See also 47H15]
- 45G05 Singular nonlinear integral equations
- 45G10 Other nonlinear integral equations
- 45G15 Systems of nonlinear integral equations
- 45H05 Miscellaneous special kernels** [See also 44A15]
- 45J05 Integro-ordinary differential equations**
- 45K05 Integro-partial differential equations**
- 45Lxx Approximation of solutions**
- 45L05 Theoretical approximation of solutions
- 45L10 Numerical approximation of solutions {For numerical analysis, see 65R20}
- 45L99 None of the above, but in this section
- 45Mxx Qualitative behavior**
- 45M05 Asymptotics
- 45M10 Stability theory
- 45M15 Periodic solutions
- 45M20 Positive solutions
- 45M99 None of the above, but in this section
- 45N05 Abstract integral equations, integral equations in abstract spaces**
- 45P05 Integral operators** [See also 47B38, 47G10]
- 46-XX FUNCTIONAL ANALYSIS (For manifolds modeled on topological linear spaces, see 57N20, 58Bxx)**
- 46-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 46-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 46-02 Research exposition (monographs, survey articles)
- 46-03 Historical (must also be assigned at least one classification number from Section 01)
- 46-04 Explicit machine computation and programs (not the theory of computation or programming)
- 46-06 Proceedings, conferences, collections, etc.
- 46Axx Topological linear spaces and related structures {For function spaces, see 46Exx}**
- 46A03 General theory of locally convex spaces
- 46A04 Locally convex Fréchet spaces and (DF)-spaces
- 46A08 Barrelled spaces, bornological spaces
- 46A11 Spaces determined by compactness or summability properties (nuclear spaces, Schwartz spaces, Montel spaces, etc.)
- 46A13 Spaces defined by inductive or projective limits (LB, LF, etc.) [See also 46M40]
- 46A16 Not locally convex spaces (metrizable topological linear spaces, locally bounded spaces, quasi-Banach spaces, etc.)
- 46A17 Bornologies and related structures; Mackey convergence, etc.
- 46A19 Other "topological" linear spaces (convergence spaces, ranked spaces, spaces with a metric taking values in an ordered structure more general than \mathbb{R} , etc.)
- 46A20 Duality theory
- 46A22 Theorems of Hahn-Banach type; extension and lifting of functionals and operators [See also 46M10]
- 46A25 Reflexivity and semi-reflexivity [See also 46B10]
- 46A30 Open mapping and closed graph theorems; completeness (including B -, B -, completeness)
- 46A32 Spaces of linear operators; topological tensor products; approximation properties [See also 46B28, 46M05, 47D15, 47D50]
- 46A35 Summability and bases [See also 46B15]
- 46A40 Ordered topological linear spaces, vector lattices [See also 06F20, 46B40, 46B42]
- 46A45 Sequence spaces (including Köthe sequence spaces) [See also 46B45]
- 46A50 Compactness in topological linear spaces; angelic spaces, etc.
- 46A55 Convex sets in topological linear spaces; Choquet theory [See also 52A07]
- 46A70 Saks spaces and their duals (strict topologies, mixed topologies, two-norm spaces, co-Saks spaces, etc.)
- 46A80 Modular spaces
- 46A99 None of the above, but in this section
- 46Bxx Normed linear spaces and Banach spaces; Banach lattices {For function spaces, see 46Exx}**
- 46B03 Isomorphic theory (including renorming) of Banach spaces
- 46B04 Isometric theory of Banach spaces
- 46B07 Local theory of Banach spaces
- 46B08 Ultraproduct techniques in Banach space theory [See also 46M07]
- 46B09 Probabilistic methods in Banach space theory [See also 60Bxx]
- 46B10 Duality and reflexivity [See also 46A25]
- 46B15 Summability and bases [See also 46A35]
- 46B20 Geometry and structure of normed linear spaces
- 46B22 Radon-Nikodým, Kreĭn-Mil'man and related properties [See also 46G10]
- 46B25 Classical Banach spaces in the general theory
- 46B26 Nonseparable Banach spaces
- 46B28 Spaces of operators; tensor products; approximation properties [See also 46A32, 46M05, 47D15, 47D50]
- 46B40 Ordered normed spaces [See also 46A40, 46B42]
- 46B42 Banach lattices [See also 46A40, 46B40]
- 46B45 Banach sequence spaces [See also 46A45]
- 46B70 Interpolation between normed linear spaces [See also 46M35]
- 46B99 None of the above, but in this section
- 46Cxx Inner product spaces and their generalizations, Hilbert spaces {For function spaces, see 46Exx}**
- 46C05 Hilbert and pre-Hilbert spaces: geometry and topology (including spaces with semidefinite inner product)
- 46C15 Characterizations of Hilbert spaces
- 46C20 Spaces with indefinite inner product
- 46C50 Generalizations of inner products (semi-inner products, partial inner products, etc.)
- 46C99 None of the above, but in this section
- 46Exx Linear function spaces and their duals** [See also 30H05, 32E25, 46F05; for function algebras, see 46J10]
- 46E05 Lattices of continuous, differentiable or analytic functions
- 46E10 Topological linear spaces of continuous, differentiable or analytic functions
- 46E15 Banach spaces of continuous, differentiable or analytic functions
- 46E20 Hilbert spaces of continuous, differentiable or analytic functions
- 46E22 Hilbert spaces with reproducing kernels (= [proper] functional Hilbert spaces)
- 46E25 Rings and algebras of continuous, differentiable or analytic functions {For Banach function algebras, see 46J10, 46J15}
- 46E27 Spaces of measures [See also 28A33, 46Gxx]
- 46E30 Spaces of measurable functions (L^p -spaces, Orlicz spaces, Köthe function spaces, Lorentz spaces, rearrangement invariant spaces, ideal spaces, etc.)
- 46E35 Sobolev spaces and other spaces of "smooth" functions, embedding theorems, trace theorems
- 46E39 Sobolev (and similar kinds of) spaces of functions of discrete variables
- 46E40 Spaces of vector- and operator-valued functions
- 46E50 Spaces of differentiable or holomorphic functions on infinite-dimensional spaces [See also 46G20]
- 46E99 None of the above, but in this section
- 46Fxx Distributions, generalized functions, distribution spaces {For distribution theory on nonlinear spaces, see 58Cxx}**
- 46F05 Topological linear spaces of test functions, distributions and ultradistributions [See also 46E10, 46E35]
- 46F10 Operations with distributions
- 46F12 Integral transforms in distribution spaces [See also 42-XX, 44-XX]

- 46F15 Hyperfunctions, analytic functionals [See also 32A25, 32A45, 32C35, 58G07]
- 46F20 Distributions and ultradistributions as boundary values of analytic functions [See also 30D40, 30E25, 32A40]
- 46F25 Distributions on infinite-dimensional spaces [See also 58C35]
- 46F99 None of the above, but in this section
- 46Gxx **Measure, integration, derivative, holomorphy (all involving infinite-dimensional spaces)** [See also 28-XX] [For nonlinear functional analysis, see 47Hxx, 58-XX, especially 58Cxx]
- 46G05 Derivatives [See also 58C20, 58C25]
- 46G10 Vector-valued measures and integration [See also 28Bxx, 46B22]
- 46G12 Measure and integration on abstract linear spaces [See also 28C20]
- 46G15 Functional analytic lifting theory [See also 28A51]
- 46G20 Infinite-dimensional holomorphy [See also 32-XX, 46E50, 58B12, 58C10]
- 46G99 None of the above, but in this section
- 46Hxx **Topological algebras, normed rings and algebras, Banach algebras (For group algebras, convolution algebras and measure algebras, see 43A10, 43A20)**
- 46H05 General theory of topological algebras
- 46H10 Ideals and subalgebras
- 46H15 Representations of topological algebras
- 46H20 Structure, classification of topological algebras
- 46H25 Normed modules and Banach modules, topological modules (if not placed in 13-XX or 16-XX)
- 46H30 Functional calculus in topological algebras [See also 47A60]
- 46H35 Topological algebras of operators [See mainly 47D30, and also 47D25, 47D50]
- 46H40 Automatic continuity
- 46H70 Nonassociative topological algebras [See also 46K70, 46L70]
- 46H99 None of the above, but in this section
- 46Jxx **Commutative Banach algebras and commutative topological algebras** [See also 46E25]
- 46J05 General theory of commutative topological algebras
- 46J10 Banach algebras of continuous functions, function algebras [See also 46E25]
- 46J15 Banach algebras of differentiable or analytic functions, H^p -spaces [See also 30D55, 30H05, 32A35, 32A37, 32E25, 42B30]
- 46J20 Ideals, maximal ideals, boundaries
- 46J25 Representations of commutative topological algebras
- 46J30 Subalgebras
- 46J40 Structure, classification of commutative topological algebras
- 46J45 Radical Banach algebras
- 46J99 None of the above, but in this section
- 46Kxx **Topological (rings and) algebras with an involution** [See also 16W10]
- 46K05 General theory of topological algebras with involution
- 46K10 Representations of topological algebras with involution
- 46K15 Hilbert algebras
- 46K50 Nonselfadjoint (sub)algebras in algebras with involution
- 46K70 Nonassociative topological algebras with an involution [See also 46H70, 46L70]
- 46K99 None of the above, but in this section
- 46Lxx **Selfadjoint operator algebras (C^* -algebras, von Neumann (W^*)-algebras, etc.)** [See also 22D25]
- 46L05 General theory of C^* -algebras
- 46L10 General theory of von Neumann algebras
- 46L30 States
- 46L35 Classifications of C^* -algebras, factors
- 46L37 Subfactors and their classification
- 46L40 Automorphisms
- 46L45 Decomposition theory for C^* -algebras
- 46L50 Noncommutative measure, integration and probability
- 46L55 Noncommutative dynamical systems [See also 28Dxx, 54H20, 58Fxx]
- 46L57 Derivations, dissipations and positive semigroups in C^* -algebras
- 46L60 Applications of selfadjoint operator algebras to physics [See also 46N50, 46N55, 47D45, 81T05, 82B10, 82C10]
- 46L70 Nonassociative selfadjoint operator algebras [See also 46H70, 46K70]
- 46L80 K -theory and operator algebras (including cyclic theory) [See also 18F25, 19Kxx, 46M20, 55Rxx, 58G12]
- 46L85 Noncommutative topology [See also 58B30, 58G12]
- 46L87 Noncommutative differential geometry [See also 58B30, 58G12]
- 46L89 Other "noncommutative" mathematics based on C^* -algebra theory [See also 58B30, 58G12]
- 46L99 None of the above, but in this section
- 46Mxx **Methods of category theory in functional analysis** [See also 18-XX]
- 46M05 Tensor products [See also 46A32, 46B28, 47A80]
- 46M07 Ultraproducts [See also 46B08, 46S20]
- 46M10 Projective and injective objects [See also 46A22]
- 46M15 Functors (For K -theory and EXT, see 19K33, 46L80, 46M20)
- 46M20 Methods of algebraic topology (cohomology, sheaf and bundle theory, etc.) [See also 14F05, 18Fxx, 19Kxx, 32Cxx, 32Lxx, 46L80, 55Rxx]
- 46M35 Abstract interpolation of topological vector spaces [See also 46B70]
- 46M40 Inductive and projective limits [See also 46A13]
- 46M99 None of the above, but in this section
- 46Nxx **Miscellaneous applications of functional analysis** [See also 47Nxx]
- 46N10 Applications in optimization, convex analysis, mathematical programming, economics
- 46N20 Applications to differential and integral equations
- 46N30 Applications in probability theory and statistics
- 46N40 Applications in numerical analysis [See also 65Jxx]
- 46N50 Applications in quantum physics
- 46N55 Applications in statistical physics
- 46N60 Applications in biology and other sciences
- 46N99 None of the above, but in this section
- 46Sxx **Other (nonclassical) types of functional analysis** [See also 47Sxx]
- 46S10 Functional analysis over fields other than \mathbb{R} or \mathbb{C} or the quaternions; non-Archimedean functional analysis [See also 12J25, 32P05]
- 46S20 Nonstandard functional analysis [See also 03H05]
- 46S30 Constructive functional analysis [See also 03F65]
- 46S40 Fuzzy functional analysis [See also 04A72]
- 46S50 Functional analysis in probabilistic metric linear spaces
- 46S99 None of the above, but in this section
- 47-XX **OPERATOR THEORY**
- 47-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 47-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 47-02 Research exposition (monographs, survey articles)
- 47-03 Historical (must also be assigned at least one classification number from Section 01)
- 47-04 Explicit machine computation and programs (not the theory of computation or programming)
- 47-06 Proceedings, conferences, collections, etc.
- 47Axx **General theory of linear operators**
- 47A05 General (adjoints, conjugates, products, inverses, domains, ranges, etc.)
- 47A10 Spectrum, resolvent
- 47A11 Local spectral properties
- 47A12 Numerical range
- 47A13 Several-variable spectral theory
- 47A15 Invariant subspaces
- 47A20 Dilations, extensions, compressions
- 47A25 Spectral sets
- 47A30 Norms (inequalities, more than one norm, etc.)
- 47A35 Ergodic theory [See also 28Dxx]
- 47A40 Scattering theory [See also 34L25, 35P25, 81Uxx]
- 47A45 Canonical models for contractions and nonselfadjoint operators
- 47A48 Operator colligations (= nodes)
- 47A50 Equations and inequalities involving linear operators, with vector unknowns
- 47A53 (Semi-) Fredholm operators; index theories [See also 58B10, 58G12]
- 47A55 Perturbation theory
- 47A56 Functions whose values are linear operators (operator and matrix pencils, etc.)
- 47A57 Operator methods in interpolation, moment and extension problems [See also 30E05, 42A70, 42A82]
- 47A58 Operator approximation theory
- 47A60 Functional calculus
- 47A62 Equations involving linear operators, with operator unknowns
- 47A63 Operator inequalities, operator means, shorted operators, etc.
- 47A65 Structure theory
- 47A66 (Non)quasitriangular, (non)quasidiagonal operators
- 47A67 Representation theory
- 47A68 Factorization theory (including Wiener-Hopf and spectral factorizations)
- 47A70 (Generalized) eigenfunction expansions; rigged Hilbert spaces
- 47A75 Eigenvalue problems [See also 49Rxx]
- 47A80 Tensor products of operators [See also 46M05]
- 47A99 None of the above, but in this section
- 47Bxx **Special classes of linear operators**
- 47B06 Riesz operators; eigenvalue distributions; approximation numbers, s -numbers, Kolmogorov numbers, entropy numbers, etc. of operators
- 47B07 Operators defined by compactness properties
- 47B10 Operators belonging to operator ideals (nuclear, p -summing, in the Schatten-von Neumann classes, etc.) [See also 47D50]
- 47B15 Hermitian and normal operators (spectral measures, functional calculus, etc.)
- 47B20 Subnormal operators, hyponormal operators, etc.
- 47B25 Symmetric and selfadjoint operators (unbounded)
- 47B35 Toeplitz operators, Hankel operators, Wiener-Hopf operators [See also 45P05, 47G10 for other integral operators; see also 32H10, 32M15]
- 47B37 Operators on special spaces (weighted shifts, operators on sequence spaces, etc.)

- 47B38 Operators on function spaces (including composition operators, kernel operators)
- 47B39 Difference operators [See also 39A70]
- 47B40 Spectral operators, decomposable operators, well-bounded operators, etc.
- 47B44 Accretive operators, dissipative operators, etc.
- 47B47 Commutators, derivations, elementary operators, etc.
- 47B48 Operators on Banach algebras
- 47B49 Transformers (= operators on spaces of operators)
- 47B50 Operators on spaces with an indefinite metric
- 47B60 Operators on ordered spaces
- 47B65 Positive operators and order-bounded operators
- 47B80 Random operators [See also 60H25]
- 47B99 None of the above, but in this section
- 47Cxx **Individual linear operators as elements of algebraic systems**
- 47C05 Operators in algebras
- 47C10 Operators in \ast -algebras
- 47C15 Operators in C^\ast - or von Neumann algebras
- 47C99 None of the above, but in this section
- 47Dxx **Algebraic systems of linear operators** [See also 46Lxx]
- 47D03 (Semi)groups of linear operators {For nonlinear operators, see 47H20; see also 20M20}
- 47D06 One-parameter semigroups and linear evolution equations
- 47D07 Markov semigroups {For Markov processes, see 60Jxx}
- 47D09 Operator cosine functions and higher-order Cauchy problems
- 47D15 Linear spaces of operators [See also 46A32, 46B28]
- 47D20 Convex sets and cones of operators [See also 90C25, 90C31]
- 47D25 Operator algebras on Hilbert space
- 47D27 Dual operator algebras
- 47D30 Operator algebras on Banach spaces and other linear topological spaces
- 47D35 Dual spaces of operator algebras and topological groups
- 47D40 Algebras of unbounded operators
- 47D45 Applications of operator algebras to physics [See also 46L60, 46N50, 46N55, 47N50, 47N55]
- 47D50 Operator ideals
- 47D99 None of the above, but in this section
- 47E05 **Ordinary differential operators** [See also 34Bxx, 34Lxx, 58F19]
- 47F05 **Partial differential operators** [See also 35Pxx, 58G05]
- 47Gxx **Integral, integro-differential, and pseudodifferential operators**
- 47G10 Integral operators [See also 45P05]
- 47G20 Integro-differential operators [See also 45J05, 45K05]
- 47G30 Pseudodifferential operators [See also 35Sxx, 58G15]
- 47G99 None of the above, but in this section
- 47Hxx **Nonlinear operators** {For global and geometric aspects, see 58-XX, especially 58Cxx}
- 47H04 Set-valued operators [See also 28B20, 54C60, 58C06]
- 47H05 Monotone operators (with respect to duality)
- 47H06 Accretive operators, dissipative operators, etc.
- 47H07 Monotone and positive operators on ordered Banach spaces or other ordered topological vector spaces
- 47H09 Nonexpansive mappings, and their generalizations (ultimately compact mappings, measures of noncompactness, A -proper mappings, K -set contractions, etc.)
- 47H10 Fixed-point theorems [See also 54H25, 55M20, 58C30]
- 47H11 Degree theory [See also 55M25, 58C30]
- 47H12 Spectral theory of nonlinear operators [See also 58C40]
- 47H15 Equations involving nonlinear operators [See also 58E07 for abstract bifurcation theory]
- 47H17 Methods for solving equations involving nonlinear operators [See also 58C15] {For numerical analysis, see 65J15}
- 47H19 Inequalities involving nonlinear operators [See also 49J27, 49J40, 49K27]
- 47H20 Semigroups of nonlinear operators and nonlinear evolution equations [See also 58D07]
- 47H30 Particular nonlinear operators (superposition, Hammerstein, Nemytskii, Uryson, hysteresis operators, etc.) [See also 45P05]
- 47H40 Random operators [See also 60H25]
- 47H99 None of the above, but in this section
- 47Nxx **Miscellaneous applications of operator theory** [See also 46Nxx]
- 47N10 Applications in optimization, convex analysis, mathematical programming, economics
- 47N20 Applications to differential and integral equations
- 47N30 Applications in probability theory and statistics
- 47N40 Applications in numerical analysis [See also 65Jxx]
- 47N50 Applications in quantum physics
- 47N55 Applications in statistical physics
- 47N60 Applications in biology and other sciences
- 47N70 Applications in systems theory, circuits, etc.
- 47N99 None of the above, but in this section
- 47Sxx **Other (nonclassical) types of operator theory** [See also 46Sxx]
- 47S10 Operator theory over fields other than \mathbb{R} , \mathbb{C} or the quaternions; non-Archimedean operator theory
- 47S20 Nonstandard operator theory [See also 03H05]
- 47S30 Constructive operator theory [See also 03F65]
- 47S40 Fuzzy operator theory [See also 04A72]
- 47S50 Operator theory in probabilistic metric linear spaces
- 47S99 None of the above, but in this section
- 49-XX **CALCULUS OF VARIATIONS AND OPTIMAL CONTROL; OPTIMIZATION** [See also 34H05, 65Kxx, 90Cxx, 93-XX]
- 49-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 49-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 49-02 Research exposition (monographs, survey articles)
- 49-03 Historical (must also be assigned at least one classification number from Section 01)
- 49-04 Explicit machine computation and programs (not the theory of computation or programming)
- 49-06 Proceedings, conferences, collections, etc.
- 49Jxx **Existence theory for optimal solutions**
- 49J05 Free problems in one independent variable
- 49J10 Free problems in two or more independent variables
- 49J15 Optimal control problems involving ordinary differential equations
- 49J20 Optimal control problems involving partial differential equations
- 49J22 Optimal control problems involving integral equations
- 49J24 Optimal control problems involving differential inclusions
- 49J25 Optimal control problems involving equations with retarded arguments [See also 34K35]
- 49J27 Problems in abstract spaces [See also 90C48]
- 49J30 Optimal solutions belonging to restricted classes (Lipschitz controls, bang-bang controls, etc.)
- 49J35 Minimax problems
- 49J40 Variational methods including variational inequalities
- 49J45 Problems involving semicontinuity and convergence
- 49J50 Fréchet and Gateaux differentiability [See also 46G05, 58C20]
- 49J52 Nonsmooth analysis (other weak concepts of optimality) [See also 58C20, 90C48]
- 49J55 Problems involving randomness [See also 93E20]
- 49J99 None of the above, but in this section
- 49Kxx **Necessary conditions and sufficient conditions for optimality**
- 49K05 Free problems in one independent variable
- 49K10 Free problems in two or more independent variables
- 49K15 Problems involving ordinary differential equations
- 49K20 Problems involving partial differential equations
- 49K22 Problems involving integral equations
- 49K24 Problems involving differential inclusions
- 49K25 Problems involving equations with retarded arguments [See also 34K35]
- 49K27 Problems in abstract spaces [See also 90C48, 93C25]
- 49K30 Optimal solutions belonging to restricted classes
- 49K35 Minimax problems
- 49K40 Sensitivity of optimal solutions in the presence of perturbations
- 49K45 Problems involving randomness [See also 93E20]
- 49K99 None of the above, but in this section
- 49Lxx **Carathéodory, Hamilton-Jacobi theories, including dynamic programming**
- 49L05 Free problems and problems involving ordinary differential equations
- 49L10 Free problems and problems involving partial differential equations
- 49L15 Problems in abstract spaces or problems involving functional relations other than differential equations
- 49L20 Dynamic programming method
- 49L25 Viscosity solutions
- 49L99 None of the above, but in this section
- 49Mxx **Methods of successive approximations** {For discrete problems, see 90Cxx; see also 65Kxx}
- 49M05 Methods based on necessary conditions
- 49M07 Gradient methods
- 49M10 Methods of steepest descent type
- 49M15 Methods of Newton-Raphson, Galerkin and Ritz types
- 49M20 Methods of relaxation type
- 49M25 Finite difference methods
- 49M27 Decomposition methods
- 49M29 Multiplier methods
- 49M30 Other methods, not based on necessary conditions (penalty function, etc.)
- 49M35 Methods of linear programming type [See also 90C05]
- 49M37 Nonlinear programming [See also 90C30]
- 49M39 Semi-infinite programming [See also 90C34]
- 49M40 Methods of quadratic programming type [See also 90C20]
- 49M45 Methods of convex programming type [See also 90C25]
- 49M49 Geometric programming [See also 90C28]
- 49M99 None of the above, but in this section

- 49Nxx Miscellaneous topics**
 49N05 Linear optimal control problems [See also 93C05]
 49N10 Linear-quadratic problems
 49N15 Duality theory
 49N20 Periodic optimization
 49N25 Impulsive optimal control problems [See also 93C57]
 49N30 Problems with incomplete information [See also 93C41]
 49N35 Closed-loop controls
 49N40 Open-loop controls
 49N45 Inverse problems in calculus of variations
 49N50 Inverse problems in optimal control theory
 49N55 Noneconomic applications of optimal control theory and differential games [See also 90D25]
 49N60 Regularity of solutions in the calculus of variations
 49N65 Applications of measurable selections to control theory [See also 28B20, 26E25]
 49N99 None of the above, but in this section
49Qxx Manifolds [See also 58Fxx]
 49Q05 Minimal surfaces [See also 53A10, 58E12]
 49Q10 Optimization of the shape other than minimal surfaces [See also 73K40, 90C90]
 49Q12 Sensitivity analysis
 49Q15 Geometric measure and integration theory, integral and normal currents [See also 28A75, 32C30, 58A25, 58C35]
 49Q20 Variational problems in a geometric measure-theoretic setting
 49Q25 Surface area
 49Q99 None of the above, but in this section
49Rxx Variational methods {For eigenvalues of operators, see 47A75}
 49R05 Variational approach to eigenvalues
 49R10 Rayleigh-Ritz methods
 49R15 Weinstein and Aronszajn methods, intermediate problems
 49R20 Linear operators in Hilbert spaces
 49R99 None of the above, but in this section
49S05 Variational principles of physics
- 51-XX GEOMETRY {For algebraic geometry, see 14-XX}**
 51-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 51-01 Instructional exposition (textbooks, tutorial papers, etc.)
 51-02 Research exposition (monographs, survey articles)
 51-03 Historical (must also be assigned at least one classification number from Section 01)
 51-04 Explicit machine computation and programs (not the theory of computation or programming)
 51-06 Proceedings, conferences, collections, etc.
51Axx Linear incidence geometry
 51A05 General theory and projective geometries
 51A10 Homomorphism, automorphism and dualities
 51A15 Structures with parallelism
 51A20 Configuration theorems
 51A25 Algebraization [See also 12Kxx, 20N05]
 51A30 Desarguesian and Pappian geometries
 51A35 Non-Desarguesian affine and projective planes
 51A40 Translation planes and spreads
 51A45 Incidence structures embeddable into projective geometries
 51A50 Polar geometry, symplectic spaces, orthogonal spaces
 51A99 None of the above, but in this section
51Bxx Nonlinear incidence geometry
 51B05 General theory
 51B10 Möbius geometries
 51B15 Laguerre geometries
 51B20 Minkowski geometries
 51B25 Lie geometries
 51B99 None of the above, but in this section
51C05 Ring geometry (Hjelmslev, Barbillian, etc.)
51Dxx Geometric closure systems
 51D05 Abstract (Maeda) geometries
 51D10 Abstract geometries with exchange axiom
 51D15 Abstract geometries with parallelism
 51D20 Combinatorial geometries [See also 05B25, 05B35]
 51D25 Lattices of subspaces [See also 05B35]
 51D30 Continuous geometries and related topics [See also 06Cxx]
 51D99 None of the above, but in this section
51Exx Finite geometry and special incidence structures
 51E05 General block designs [See also 05B05]
 51E10 Steiner systems
 51E12 Generalized quadrangles, generalized polygons
 51E14 Finite partial geometries (general), nets, partial spreads
 51E15 Affine and projective planes
 51E20 Combinatorial structures in finite projective spaces [See also 05Bxx]
 51E21 Blocking sets, ovals, k -arcs
 51E22 Linear codes and caps in Galois spaces [See also 94B05]
 51E23 Spreads and packing problems
- 51E24 Buildings and the geometry of diagrams
 51E25 Other finite nonlinear geometries
 51E26 Other finite linear geometries
 51E30 Other finite incidence structures [See also 05B30]
 51E99 None of the above, but in this section
51Fxx Metric geometry
 51F05 Absolute planes
 51F10 Absolute spaces
 51F15 Reflection groups, reflection geometries [See also 20H10, 20H15; for Coxeter groups, see 20F55]
 51F20 Congruence and orthogonality [See also 20H05]
 51F25 Orthogonal and unitary groups [See also 20H05]
 51F99 None of the above, but in this section
51G05 Ordered geometries (ordered incidence structures, etc.)
51Hxx Topological geometry
 51H05 General theory
 51H10 Topological linear incidence structures
 51H15 Topological nonlinear incidence structures
 51H20 Topological geometries on manifolds [See also 57-XX]
 51H25 Geometries with differentiable structure [See also 53Cxx, 53C70]
 51H30 Geometries with algebraic manifold structure [See also 14-XX]
 51H99 None of the above, but in this section
51Jxx Incidence groups
 51J05 General theory
 51J10 Projective incidence groups
 51J15 Kinematic spaces
 51J20 Representation by near-fields and near-algebras [See also 12K05, 16Y30]
 51J99 None of the above, but in this section
51Kxx Distance geometry
 51K05 General theory
 51K10 Synthetic differential geometry
 51K99 None of the above, but in this section
51Lxx Geometric order structures [See also 53C75]
 51L05 Geometry of orders of nondifferentiable curves
 51L10 Directly differentiable curves
 51L15 n -vertex theorems via direct methods
 51L20 Geometry of orders of surfaces
 51L99 None of the above, but in this section
51Mxx Real and complex geometry
 51M04 Elementary problems in Euclidean geometries
 51M05 Euclidean geometries (general) and generalizations
 51M09 Elementary problems in hyperbolic and elliptic geometries
 51M10 Hyperbolic and elliptic geometries (general) and generalizations
 51M15 Geometric constructions
 51M16 Inequalities and extremum problems {For convex problems, see 52A40}
 51M20 Polyhedra and polytopes; regular figures, division of spaces [See also 51F15]
 51M25 Length, area and volume [See also 26B15]
 51M30 Line geometries and their generalizations [See also 53A25]
 51M35 Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations) [See also 14M15]
 51M99 None of the above, but in this section
51Nxx Analytic and descriptive geometry
 51N05 Descriptive geometry [See also 65D17, 68U07]
 51N10 Affine analytic geometry
 51N15 Projective analytic geometry
 51N20 Euclidean analytic geometry
 51N25 Analytic geometry with other transformation groups
 51N30 Geometry of classical groups [See also 20Gxx, 14L35]
 51N35 Questions of classical algebraic geometry [See also 14Nxx]
 51N99 None of the above, but in this section
51P05 Geometry and physics (should also be assigned at least one other classification number from Sections 70-86)
- 52-XX CONVEX AND DISCRETE GEOMETRY**
 52-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 52-01 Instructional exposition (textbooks, tutorial papers, etc.)
 52-02 Research exposition (monographs, survey articles)
 52-03 Historical (must also be assigned at least one classification number from Section 01)
 52-04 Explicit machine computation and programs (not the theory of computation or programming)
 52-06 Proceedings, conferences, collections, etc.
52Axx General convexity
 52A01 Axiomatic and generalized convexity
 52A05 Convex sets without dimension restrictions
 52A07 Convex sets in topological vector spaces [See also 46A55]
 52A10 Convex sets in 2 dimensions (including convex curves) [See also 53A04]

- 52A15 Convex sets in 3 dimensions (including convex surfaces)
[See also 53A05, 53C45]
- 52A20 Convex sets in n dimensions (including convex hypersurfaces)
[See also 53A07, 53C45]
- 52A21 Finite-dimensional Banach spaces (including special norms, zonoids, etc.) [See also 46Bxx]
- 52A22 Random convex sets and integral geometry [See also 53C65, 60D05]
- 52A27 Approximation by convex sets
- 52A30 Variants of convex sets (star-shaped, (m, n) -convex, etc.)
- 52A35 Helly-type theorems
- 52A37 Other problems of combinatorial convexity
- 52A38 Length, area, volume [See also 26B15, 28A75, 49Q20]
- 52A39 Mixed volumes and related topics
- 52A40 Inequalities and extremum problems
- 52A41 Convex functions and convex programs [See also 26B25, 90C25]
- 52A55 Spherical and hyperbolic convexity
- 52A99 None of the above, but in this section
- 52Bxx Polytopes and polyhedra**
- 52B05 Combinatorial properties (number of faces, shortest paths, etc.)
[See also 05Cxx]
- 52B10 Three-dimensional polytopes
- 52B11 n -dimensional polytopes
- 52B12 Special polytopes (linear programming, centrally symmetric, etc.)
- 52B15 Symmetry properties of polytopes
- 52B20 Lattice polytopes (including relations with commutative algebra and algebraic geometry) [See also 06A08, 13F20, 13Hxx]
- 52B30 Arrangements of hyperplanes
- 52B35 Gale and other diagrams
- 52B40 Matroids (realizations in the context of convex polytopes, convexity in combinatorial structures, etc.) [See also 05B35]
- 52B45 Dissections and valuations (Hilbert's third problem, etc.)
- 52B55 Computational aspects related to convexity [For computational geometry and algorithms, see 68Q20, 68Q25, 68U05; for numerical algorithms, see 65Yxx]
- 52B60 Isoperimetric problems for polytopes
- 52B70 Polyhedral manifolds
- 52B99 None of the above, but in this section
- 52Cxx Discrete geometry**
- 52C05 Lattices and convex bodies in 2 dimensions [See also 11H06, 11H31, 11P21]
- 52C07 Lattices and convex bodies in n dimensions [See also 11H06, 11H31, 11P21]
- 52C10 Erdős problems and related topics of discrete geometry
[See also 11Hxx]
- 52C15 Packing and covering in 2 dimensions [See also 05B40, 11H31]
- 52C17 Packing and covering in n dimensions [See also 05B40, 11H31]
- 52C20 Tilings in 2 dimensions [See also 05B45, 51M20]
- 52C22 Tilings in n dimensions [See also 05B45, 51M20]
- 52C25 Rigidity and flexibility of structures [See also 70B15]
- 52C99 None of the above, but in this section
- 53-XX DIFFERENTIAL GEOMETRY** {For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx}
- 53-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 53-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 53-02 Research exposition (monographs, survey articles)
- 53-03 Historical (must also be assigned at least one classification number from Section 01)
- 53-04 Explicit machine computation and programs (not the theory of computation or programming)
- 53-06 Proceedings, conferences, collections, etc.
- 53Axx Classical differential geometry**
- 53A04 Curves in Euclidean space
- 53A05 Surfaces in Euclidean space
- 53A07 Higher-dimension and -codimension surfaces in Euclidean n -space
- 53A10 Minimal surfaces, surfaces with prescribed mean curvature
[See also 49Q05, 49Q10, 53C42]
- 53A15 Affine differential geometry
- 53A17 Kinematics
- 53A20 Projective differential geometry
- 53A25 Differential line geometry
- 53A30 Conformal differential geometry
- 53A35 Non-Euclidean differential geometry
- 53A40 Other special differential geometries
- 53A45 Vector and tensor analysis
- 53A50 Spinor analysis
- 53A55 Differential invariants (local theory), geometric objects
- 53A60 Geometry of webs [See also 14C21, 20N05]
- 53A99 None of the above, but in this section
- 53Bxx Local differential geometry**
- 53B05 Linear and affine connections
- 53B10 Projective connections
- 53B15 Other connections
- 53B20 Local Riemannian geometry
- 53B21 Methods of Riemannian geometry
- 53B25 Local submanifolds [See also 53C40]
- 53B30 Lorentz metrics, indefinite metrics
- 53B35 Hermitian and Kählerian structures [See also 32Cxx]
- 53B40 Finsler spaces and generalizations (areal metrics)
- 53B50 Applications to physics
- 53B99 None of the above, but in this section
- 53Cxx Global differential geometry** [See also 51H25, 58-XX; for related bundle theory, see 55Rxx, 57Rxx]
- 53C05 Connections, general theory
- 53C07 Special connections and metrics on vector bundles (Hermite-Einstein-Yang-Mills) [See also 32L07]
- 53C10 G -structures
- 53C12 Foliations (differential geometric aspects) [See also 57R30, 57R32]
- 53C15 General geometric structures on manifolds (almost complex, contact, symplectic, almost product structures, etc.)
- 53C20 Global Riemannian geometry, including pinching [See also 31C12, 58B20]
- 53C21 Methods of Riemannian geometry, including PDE methods; curvature restrictions [See also 58G30]
- 53C22 Geodesics [See also 58E10]
- 53C23 Global topological methods (à la Gromov)
- 53C25 Special Riemannian manifolds (Einstein, Sasakian, etc.)
- 53C30 Homogeneous manifolds [See also 14M15, 14M17, 32M10, 57T15]
- 53C35 Symmetric spaces [See also 32M15, 57T15]
- 53C40 Global submanifolds [See also 53B25]
- 53C42 Immersions (minimal, prescribed curvature, tight, etc.)
[See also 49Q05, 49Q10, 53A10, 57R40, 57R42]
- 53C45 Global surface theory (convex surfaces à la A. D. Aleksandrov)
- 53C50 Lorentz manifolds, manifolds with indefinite metrics
- 53C55 Hermitian and Kählerian manifolds [See also 32Cxx]
- 53C56 Other complex differential geometry [See also 32Cxx]
- 53C60 Finsler spaces and generalizations (areal metrics) [See also 58B20]
- 53C65 Integral geometry [See also 52A22, 60D05]; differential forms, currents, etc. [See mainly 58Axx]
- 53C70 Direct methods (G -spaces of Busemann, etc.)
- 53C75 Geometric orders, order geometry [See also 51Lxx]
- 53C80 Applications to physics
- 53C99 None of the above, but in this section
- 53Z05 Applications to physics
- 54-XX GENERAL TOPOLOGY** {For the topology of manifolds of all dimensions, see 57Nxx}
- 54-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 54-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 54-02 Research exposition (monographs, survey articles)
- 54-03 Historical (must also be assigned at least one classification number from Section 01)
- 54-04 Explicit machine computation and programs (not the theory of computation or programming)
- 54-06 Proceedings, conferences, collections, etc.
- 54Axx Generalities**
- 54A05 Topological spaces and generalizations (closure spaces, etc.)
- 54A10 Several topologies on one set (change of topology, comparison of topologies, lattices of topologies)
- 54A15 Syntopogeneous structures
- 54A20 Convergence in general topology (sequences, filters, limits, convergence spaces, etc.)
- 54A25 Cardinality properties (cardinal functions and inequalities, discrete subsets) [See also 03Exx, 04A30] {For ultrafilters, see 54D80}
- 54A35 Consistency and independence results [See also 03E35]
- 54A40 Fuzzy topology [See also 04A72]
- 54A99 None of the above, but in this section
- 54Bxx Basic constructions**
- 54B05 Subspaces
- 54B10 Product spaces
- 54B15 Quotient spaces, decompositions
- 54B17 Adjunction spaces and similar constructions
- 54B20 Hyperspaces
- 54B30 Categorical methods [See also 18B30]
- 54B35 Spectra
- 54B40 Presheaves and sheaves [See also 18F20]
- 54B99 None of the above, but in this section
- 54Cxx Maps and general types of spaces defined by maps**
- 54C05 Continuous maps
- 54C08 Weak and generalized continuity
- 54C10 Special maps on topological spaces (open, closed, perfect, etc.)

- 54C15 Retraction
- 54C20 Extension of maps
- 54C25 Embedding
- 54C30 Real-valued functions [See also 26-XX]
- 54C35 Function spaces [See also 46Exx, 58D15]
- 54C40 Algebraic properties of function spaces [See also 46J10]
- 54C45 C^- and C^* -embedding
- 54C50 Special sets defined by functions [See also 26A21]
- 54C55 Absolute neighborhood extensor, absolute extensor, absolute neighborhood retract (ANR), absolute retract spaces (general properties) [See also 55M15]
- 54C56 Shape theory [See also 55P55, 57N25]
- 54C60 Set-valued maps [See also 26E25, 28B20, 47H04, 58C06]
- 54C65 Selections [See also 28B20]
- 54C70 Entropy
- 54C99 None of the above, but in this section
- 54Dxx Fairly general properties**
- 54D05 Connected and locally connected spaces (general aspects)
- 54D10 Lower separation axioms, (T_0-T_3) , etc.)
- 54D15 Higher separation axioms (completely regular, normal, perfectly or collectionwise normal, etc.)
- 54D20 Noncompact covering properties (paracompact, Lindelöf, etc.)
- 54D25 " P -minimal" and " P -closed" spaces
- 54D30 Compactness
- 54D35 Extensions of spaces (compactifications, supercompactifications, completions, etc.)
- 54D40 Remainders
- 54D45 Local compactness, σ -compactness
- 54D50 k -spaces
- 54D55 Sequential spaces
- 54D60 Realcompactness and realcompactification
- 54D65 Separability
- 54D70 Base properties
- 54D80 Special constructions of spaces (spaces of ultrafilters, etc.)
- 54D99 None of the above, but in this section
- 54Exx Spaces with richer structures**
- 54E05 Proximity structures and generalizations
- 54E15 Uniform structures and generalizations
- 54E17 Nearness spaces
- 54E18 p -spaces, M -spaces, σ -spaces, etc.
- 54E20 Stratifiable spaces, cosmic spaces, etc.
- 54E25 Semimetric spaces
- 54E30 Moore spaces
- 54E35 Metric spaces, metrizable
- 54E40 Special maps on metric spaces
- 54E45 Compact (locally compact) metric spaces
- 54E50 Complete metric spaces
- 54E52 Baire category, Baire spaces
- 54E55 Bitopologies
- 54E70 Probabilistic metric spaces
- 54E99 None of the above, but in this section
- 54Fxx Special properties**
- 54F05 Ordered topological spaces, partially ordered spaces [See also 06B30, 06F30]
- 54F15 Continua and generalizations
- 54F35 Higher-dimensional local connectedness [See also 55Mxx, 55Nxx]
- 54F45 Dimension theory [See also 55M10]
- 54F50 Spaces of dimension ≤ 1 ; curves, dendrites [See also 26A03]
- 54F55 Unicoherence, multicoherence
- 54F65 Topological characterizations of particular spaces
- 54F99 None of the above, but in this section
- 54Gxx Peculiar spaces**
- 54G05 Extremely disconnected spaces, F -spaces, etc.
- 54G10 P -spaces
- 54G12 Scattered spaces
- 54G15 Pathological spaces
- 54G20 Counterexamples
- 54G99 None of the above, but in this section
- 54Hxx Connections with other structures, applications**
- 54H05 Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets) [See also 03E15, 04A15, 26A21, 28A05]
- 54H10 Topological representations of algebraic systems [See also 22-XX]
- 54H11 Topological groups [See also 22A05]
- 54H12 Topological lattices, etc. [See also 06B30, 06F30]
- 54H13 Topological fields, rings, etc. [See also 12Jxx] {For algebraic aspects, see 13Jxx, 16W80}
- 54H15 Transformation groups and semigroups [See also 20M20, 22-XX, 57Sxx]
- 54H20 Topological dynamics [See also 28Dxx, 34C35, 58Fxx]
- 54H25 Fixed-point and coincidence theorems [See also 47H10, 55M20]
- 54H99 None of the above, but in this section
- 54J05 Nonstandard topology [See also 03H05]**

55-XX ALGEBRAIC TOPOLOGY

- 55-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 55-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 55-02 Research exposition (monographs, survey articles)
- 55-03 Historical (must also be assigned at least one classification number from Section 01)
- 55-04 Explicit machine computation and programs (not the theory of computation or programming)
- 55-06 Proceedings, conferences, collections, etc.
- 55Mxx Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx}**
- 55M05 Duality
- 55M10 Dimension theory [See also 54F45]
- 55M15 Absolute neighborhood retracts [See also 54C55]
- 55M20 Fixed points and coincidences [See also 54H25]
- 55M25 Degree, winding number
- 55M30 Ljusternik-Schnirelman (Ljusternik-Shnirel'man) category of a space
- 55M35 Finite groups of transformations (including Smith theory) [See also 57S17]
- 55M99 None of the above, but in this section
- 55Nxx Homology and cohomology theories [See also 57Txx]**
- 55N05 Čech types
- 55N07 Steenrod-Sitnikov homologies
- 55N10 Singular theory
- 55N15 K -theory [See also 19Lxx] {For algebraic K -theory, see 18F25, 19-XX}
- 55N20 Generalized (extraordinary) homology and cohomology theories
- 55N22 Bordism and cobordism theories, formal group laws [See also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90]
- 55N25 Homology with local coefficients, equivariant cohomology
- 55N30 Sheaf cohomology [See also 18F20, 32C35, 32L10]
- 55N33 Intersection homology and cohomology
- 55N35 Other homology theories
- 55N40 Axioms for homology theory and uniqueness theorems
- 55N45 Products and intersections
- 55N91 Equivariant homology and cohomology [See also 19L47]
- 55N99 None of the above, but in this section
- 55Pxx Homotopy theory {For simple homotopy type, see 57Q10}**
- 55P05 Homotopy extension properties, cofibrations
- 55P10 Homotopy equivalences
- 55P15 Classification of homotopy type
- 55P20 Eilenberg-Mac Lane spaces
- 55P25 Spanier-Whitehead duality
- 55P30 Eckmann-Hilton duality
- 55P35 Loop spaces
- 55P40 Suspensions
- 55P42 Stable homotopy theory, spectra
- 55P45 H -spaces and duals
- 55P47 Infinite loop spaces
- 55P50 Category and cocategory, etc.
- 55P55 Shape theory [See also 54C56, 55Q07]
- 55P60 Localization and completion
- 55P62 Rational homotopy theory
- 55P65 Homotopy functors
- 55P91 Equivariant homotopy theory [See also 19L47]
- 55P99 None of the above, but in this section
- 55Qxx Homotopy groups**
- 55Q05 Homotopy groups, general; sets of homotopy classes
- 55Q07 Shape groups
- 55Q10 Stable homotopy groups
- 55Q15 Whitehead products and generalizations
- 55Q20 Homotopy groups of wedges, joins, and simple spaces
- 55Q25 Hopf invariants
- 55Q30 Homotopy groups of triads, n -ads
- 55Q35 Operations in homotopy groups
- 55Q40 Homotopy groups of spheres
- 55Q45 Stable homotopy of spheres
- 55Q50 J -morphism [See also 19L20]
- 55Q52 Homotopy groups of special spaces
- 55Q55 Cohomotopy groups
- 55Q70 Homotopy groups of special types [See also 55N05, 55N07]
- 55Q91 Equivariant homotopy groups [See also 19L47]
- 55Q99 None of the above, but in this section
- 55Rxx Fiber spaces and bundles [See also 18F15, 32Lxx, 46M20, 57R20, 57R22, 57R25]**
- 55R05 Fiber spaces
- 55R10 Fiber bundles
- 55R12 Transfer
- 55R15 Classification
- 55R20 Spectral sequences and homology of fiber spaces [See also 55Txx]
- 55R25 Sphere bundles and vector space bundles
- 55R35 Classifying spaces of groups and H -spaces

- 55R40 Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20]
- 55R45 Homology and homotopy of BO and BU ; Bott periodicity
- 55R50 Stable classes of vector space bundles, K -theory [See also 19Lxx] {For algebraic K -theory, see 18F25, 19-XX}
- 55R55 Fiberings with singularities
- 55R60 Microbundles and block bundles [See also 57N55, 57Q50]
- 55R65 Generalizations of fiber spaces and bundles
- 55R91 Equivariant fiber spaces and bundles [See also 19L47]
- 55R99 None of the above, but in this section
- 55Sxx Operations and obstructions**
- 55S05 Primary cohomology operations
- 55S10 Steenrod algebra
- 55S12 Dyer-Lashof operations
- 55S15 Symmetric products, cyclic products
- 55S20 Secondary and higher cohomology operations
- 55S25 K -theory operations and generalized cohomology operations [See also 19D55, 19Lxx]
- 55S30 Massey products
- 55S35 Obstruction theory
- 55S36 Extension and compression of mappings
- 55S37 Classification of mappings
- 55S40 Sectioning fiber spaces and bundles
- 55S45 Postnikov systems, k -invariants
- 55S91 Equivariant operations and obstructions [See also 19L47]
- 55S99 None of the above, but in this section
- 55Txx Spectral sequences [See also 18G40, 55R20]**
- 55T05 General
- 55T10 Serre spectral sequences
- 55T15 Adams spectral sequences
- 55T20 Eilenberg-Moore spectral sequences [See also 57T35]
- 55T25 Generalized cohomology
- 55T99 None of the above, but in this section
- 55Uxx Applied homological algebra and category theory [See also 18Gxx]**
- 55U05 Abstract complexes
- 55U10 Semisimplicial complexes
- 55U15 Chain complexes
- 55U20 Universal coefficient theorems, Bockstein operator
- 55U25 Homology of a product, Künneth formula
- 55U30 Duality
- 55U35 Abstract homotopy theory
- 55U40 Topological categories
- 55U99 None of the above, but in this section
- 57-XX MANIFOLDS AND CELL COMPLEXES {For complex manifolds, see 32C10}**
- 57-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 57-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 57-02 Research exposition (monographs, survey articles)
- 57-03 Historical (must also be assigned at least one classification number from Section 01)
- 57-04 Explicit machine computation and programs (not the theory of computation or programming)
- 57-06 Proceedings, conferences, collections, etc.
- 57Mxx Low-dimensional topology**
- 57M05 Fundamental group, presentations, free differential calculus
- 57M07 Topological methods in group theory
- 57M10 Covering spaces
- 57M12 Special coverings, e.g. branched
- 57M15 Relations with graph theory [See also 05Cxx]
- 57M20 Two-dimensional complexes
- 57M25 Knots and links in S^3 {For higher dimensions, see 57Q45}
- 57M30 Wild knots and surfaces, etc.; wild embeddings
- 57M35 Dehn's lemma, sphere theorem, loop theorem, asphericity
- 57M40 Characterizations of E^3 and S^3 (Poincaré conjecture) [See also 57N12]
- 57M50 Geometric structures on low-dimensional manifolds
- 57M60 Group actions in low dimensions
- 57M99 None of the above, but in this section
- 57Nxx Topological manifolds**
- 57N05 Topology of E^2 , 2-manifolds
- 57N10 Topology of general 3-manifolds [See also 57Mxx]
- 57N12 Topology of E^3 and S^3 [See also 57M40]
- 57N13 Topology of E^4 , 4-manifolds [See also 14Jxx, 32Jxx]
- 57N15 Topology of E^n , n -manifolds ($4 < n < \infty$)
- 57N17 Topology of topological vector spaces
- 57N20 Topology of infinite-dimensional manifolds [See also 58Bxx]
- 57N25 Shapes [See also 54C56, 55P55, 55Q07]
- 57N30 Engulfing
- 57N35 Embeddings and immersions
- 57N37 Isotopy and pseudo-isotopy
- 57N40 Neighborhoods of submanifolds
- 57N45 Flatness and tameness
- 57N50 $S^{n-1} \subset E^n$, Schoenflies problem
- 57N55 Microbundles and block bundles [See also 55R60, 57Q50]
- 57N60 Cellularity
- 57N65 Algebraic topology of manifolds
- 57N70 Cobordism and concordance
- 57N75 General position and transversality
- 57N80 Stratifications
- 57N99 None of the above, but in this section
- 57Pxx Generalized manifolds [See also 18F15]**
- 57P05 Local properties of generalized manifolds
- 57P10 Poincaré duality spaces
- 57P99 None of the above, but in this section
- 57Qxx PL-topology**
- 57Q05 General topology of complexes
- 57Q10 Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc. [See also 19B28]
- 57Q12 Wall finiteness obstruction for CW-complexes
- 57Q15 Triangulating manifolds
- 57Q20 Cobordism
- 57Q25 Comparison of PL-structures: classification, Hauptvermutung
- 57Q30 Engulfing
- 57Q35 Embeddings and immersions
- 57Q37 Isotopy
- 57Q40 Regular neighborhoods
- 57Q45 Knots and links (in high dimensions) {For the low-dimensional case, see 57M25}
- 57Q50 Microbundles and block bundles [See also 55R60, 57N55]
- 57Q55 Approximations
- 57Q60 Cobordism and concordance
- 57Q65 General position and transversality
- 57Q91 Equivariant PL-topology
- 57Q99 None of the above, but in this section
- 57Rxx Differential topology {For foundational questions of differentiable manifolds, see 58Axx; for infinite-dimensional manifolds, see 58Bxx}**
- 57R05 Triangulating
- 57R10 Smoothing
- 57R12 Smooth approximations
- 57R15 Specialized structures on manifolds (spin manifolds, framed manifolds, etc.)
- 57R19 Algebraic topology on manifolds
- 57R20 Characteristic classes and numbers
- 57R22 Topology of vector bundles and fiber bundles [See also 55Rxx]
- 57R25 Vector fields, frame fields
- 57R27 Controllability of vector fields on C^∞ and real-analytic manifolds [See also 49Qxx, 58F40, 93B05]
- 57R30 Foliations; geometric theory
- 57R32 Classifying spaces for foliations; Gel'fand-Fuks cohomology [See also 58H10]
- 57R35 Differentiable mappings
- 57R40 Embeddings
- 57R42 Immersions
- 57R45 Singularities of differentiable mappings
- 57R50 Diffeomorphisms
- 57R52 Isotopy
- 57R55 Differentiable structures
- 57R57 Applications of global analysis to structures on manifolds [See also 58-XX]
- 57R60 Homotopy spheres, Poincaré conjecture
- 57R65 Surgery and handlebodies
- 57R67 Surgery obstructions, Wall groups [See also 19J25]
- 57R70 Critical points and critical submanifolds
- 57R75 O- and SO-cobordism
- 57R77 Complex cobordism (U- and SU-cobordism) [See also 55N22]
- 57R80 h - and s -cobordism
- 57R85 Equivariant cobordism
- 57R90 Other types of cobordism [See also 55N22]
- 57R91 Equivariant algebraic topology of manifolds
- 57R95 Realizing cycles by submanifolds
- 57R99 None of the above, but in this section
- 57Sxx Topological transformation groups [See also 20F34, 22-XX, 54H15, 58D05]**
- 57S05 Topological properties of groups of homeomorphisms or diffeomorphisms
- 57S10 Compact groups of homeomorphisms
- 57S15 Compact Lie groups of differentiable transformations
- 57S17 Finite transformation groups
- 57S20 Noncompact Lie groups of transformations
- 57S25 Groups acting on specific manifolds
- 57S30 Discontinuous groups of transformations
- 57S99 None of the above, but in this section

- 57Txx **Homology and homotopy of topological groups and related structures**
 57T05 Hopf algebras [See also 16W30]
 57T10 Homology and cohomology of Lie groups
 57T15 Homology and cohomology of homogeneous spaces of Lie groups
 57T20 Homotopy groups of topological groups and homogeneous spaces
 57T25 Homology and cohomology of H -spaces
 57T30 Bar and cobar constructions [See also 18G55, 55Uxx]
 57T35 Applications of Eilenberg-Moore spectral sequences [See also 55R20, 55T20]
 57T99 None of the above, but in this section
- 58-XX GLOBAL ANALYSIS, ANALYSIS ON MANIFOLDS**
 [See also 32Cxx, 32Fxx, 46-XX, 47Hxx, 53Cxx; for geometric integration theory, see 49Q15]
 58-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 58-01 Instructional exposition (textbooks, tutorial papers, etc.)
 58-02 Research exposition (monographs, survey articles)
 58-03 Historical (must also be assigned at least one classification number from Section 01)
 58-04 Explicit machine computation and programs (not the theory of computation or programming)
 58-06 Proceedings, conferences, collections, etc.
- 58Axx General theory of differentiable manifolds**
 58A03 Topos-theoretic approach to differentiable manifolds
 58A05 Differentiable manifolds, foundations
 58A07 Real-analytic and Nash manifolds [See also 14P20, 32C07]
 58A10 Differential forms
 58A12 de Rham theory [See also 14Fxx]
 58A14 Hodge theory [See also 14C30, 14Fxx, 32J25, 32S35]
 58A15 Exterior differential systems (Cartan theory)
 58A17 Pfaffian systems
 58A20 Jets
 58A25 Currents [See also 32C30, 53C65]
 58A30 Vector distributions (subbundles of the tangent bundles)
 58A35 Stratified sets [See also 32S60, 58C27]
 58A40 Differential spaces
 58A50 Supermanifolds and graded manifolds [See also 14A22, 32C11]
 58A99 None of the above, but in this section
- 58Bxx Infinite-dimensional manifolds**
 58B05 Homotopy and topological questions
 58B10 Differentiability questions
 58B12 Questions of holomorphy [See also 32-XX, 46G20]
 58B15 Fredholm structures [See also 47A53]
 58B20 Riemannian, Finsler and other geometric structures [See also 53C20, 53C60]
 58B25 Group structures and generalizations on infinite-dimensional manifolds [See also 22E65, 58D05]
 58B30 Noncommutative differential geometry and topology [See also 46L30, 46L87, 46L89]
 58B99 None of the above, but in this section
- 58Cxx Calculus on manifolds; nonlinear operators** [See also 47Hxx]
 58C05 Real-valued functions
 58C06 Set valued and function-space valued mappings [See also 47H04, 54C60]
 58C07 Continuity properties of mappings
 58C10 Holomorphic maps [See also 32-XX]
 58C15 Implicit function theorems; global Newton methods
 58C20 Differentiation theory (Gateaux, Fréchet, etc.) [See also 26Exx, 46G05]
 58C25 Differentiable maps
 58C27 Singularities of differentiable maps [See also 14B05, 14E15, 32Sxx]
 58C28 Catastrophes [See also 57R70, 58Exx]
 58C30 Fixed-point theorems on manifolds [See also 47H10]
 58C35 Integration on manifolds; measures on manifolds [See also 28Cxx]
 58C40 Spectral theory; eigenvalue problems [See also 47H12, 58E07]
 58C50 Analysis on supermanifolds or graded manifolds
 58C99 None of the above, but in this section
- 58Dxx Spaces and manifolds of mappings (including nonlinear versions of 46Exx)**
 58D05 Groups of diffeomorphisms and homeomorphisms as manifolds [See also 22E65, 57S05]
 58D07 Groups and semigroups of nonlinear operators [See also 17B65, 47D03, 47D06, 47H20]
 58D10 Spaces of embeddings and immersions
 58D15 Manifolds of mappings [See also 54C35]
 58D17 Manifolds of metrics (esp. Riemannian)
 58D19 Group actions and symmetry properties
 58D20 Measures (Gaussian, cylindrical, etc.) on manifolds of maps [See also 28Cxx]
 58D25 Equations in function spaces; evolution equations [See also 34Gxx, 35K22, 35R15, 47H15]
 58D27 Moduli problems for differential geometric structures
- 58D29 Moduli problems for topological structures
 58D30 Applications (in quantum mechanics (Feynman path integrals), relativity, fluid dynamics, etc.)
 58D99 None of the above, but in this section
- 58Exx Variational problems in infinite-dimensional spaces**
 58E05 Abstract critical point theory (Morse theory, Ljusternik-Schnirelman (Lyusternik-Shnirel'man) theory, etc.)
 58E07 Abstract bifurcation theory
 58E09 Group-invariant bifurcation theory
 58E10 Applications to the theory of geodesics (problems in one independent variable)
 58E11 Critical metrics
 58E12 Applications to minimal surfaces (problems in two independent variables)
 58E15 Application to extremal problems in several variables; Yang-Mills functionals [See also 81T13], etc.
 58E17 Pareto optimality, etc., applications to economics
 58E20 Harmonic maps
 58E25 Applications to control theory (optimal and nonoptimal)
 58E30 Variational principles
 58E35 Variational inequalities (global problems)
 58E40 Group actions
 58E50 Applications
 58E99 None of the above, but in this section
- 58Fxx Ordinary differential equations on manifolds; dynamical systems**
 [See also 28D10, 34Cxx, 54H20]
 58F03 One-dimensional dynamics, general symbolic dynamics [See also 26A18]
 58F05 Hamiltonian and Lagrangian systems; symplectic geometry [See also 70Hxx, 81S10]
 58F06 Geometric quantization (applications of representation theory) [See also 22E45, 81S10]
 58F07 Completely integrable systems (including systems with an infinite number of degrees of freedom)
 58F08 Point-mapping properties, iterations, completeness; dynamics of cellular automata [See also 26A18, 30D05]
 58F09 Morse-Smale systems
 58F10 Stability theory
 58F11 Ergodic theory; invariant measures [See also 28Dxx]
 58F12 Structure of attractors (and repellers)
 58F13 Strange attractors; chaos and other pathologies [See also 70K50]
 58F14 Bifurcation theory and singularities
 58F15 Hyperbolic structures (expanding maps, Anosov systems, etc.)
 58F17 Geodesic and horocycle flows
 58F18 Relations with foliations
 58F19 Eigenvalue and spectral problems
 58F20 Periodic points and zeta functions
 58F21 Limit cycles, singular points, etc.
 58F22 Periodic solutions
 58F23 Holomorphic dynamics [See also 30D05]
 58F25 Flows
 58F27 Quasiperiodic flows
 58F30 Perturbations
 58F32 Functional-differential equations on manifolds
 58F35 Invariance properties
 58F36 Normal forms
 58F37 Correspondences and other transformation methods (e.g. Lie-Bäcklund)
 58F39 Dynamical systems treatment of PDE (should be assigned another number from 58F) [See also 35B32, 35K57]
 58F40 Applications
 58F99 None of the above, but in this section
- 58Gxx Partial differential equations on manifolds; differential operators**
 [See also 35-XX]
 58G03 Elliptic equations on manifolds, general theory
 58G05 Differential complexes [See also 35Nxx]; elliptic complexes
 58G07 Relations with hyperfunctions
 58G10 Index theory and related fixed-point theorems [See also 19K56, 46L80]
 58G11 Heat and other parabolic equation methods
 58G12 Exotic index theories [See also 19K56, 46L05, 46L10, 46L80, 46M20]
 58G15 Pseudodifferential and Fourier integral operators on manifolds [See also 35Sxx]
 58G16 Hyperbolic equations
 58G17 Propagation of singularities; initial value problems
 58G18 Perturbations; asymptotics
 58G20 Boundary value problems on manifolds
 58G25 Spectral problems; spectral geometry; scattering theory [See also 35Pxx]
 58G26 Determinants and determinant bundles
 58G28 Bifurcations [See also 35B32]
 58G30 Relations with special manifold structures (Riemannian, Finsler, etc.)
 58G32 Diffusion processes and stochastic analysis on manifolds

- 58G35 Invariance and symmetry properties [See also 35A30]
 58G37 Correspondences and other transformation methods (e.g. Lie-Bäcklund) [See also 35A22]
 58G40 Applications
 58G99 None of the above, but in this section
58Hxx Pseudogroups, differentiable groupoids and general structures on manifolds
 58H05 Pseudogroups and differentiable groupoids [See also 22A22, 22E65]
 58H10 Cohomology of classifying spaces for pseudogroup structures (Spencer, Gel'fand-Fuks, etc.) [See also 57R32]
 58H15 Deformations of structures [See also 32Gxx, 58G05]
 58H99 None of the above, but in this section
58Z05 Applications to physics
- 60-XX PROBABILITY THEORY AND STOCHASTIC PROCESSES (For additional applications, see 11Kxx, 62-XX, 90-XX, 92-XX, 93-XX, 94-XX. For numerical results, see 65U05)**
 60-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 60-01 Instructional exposition (textbooks, tutorial papers, etc.)
 60-02 Research exposition (monographs, survey articles)
 60-03 Historical (must also be assigned at least one classification number from Section 01)
 60-04 Explicit machine computation and programs (not the theory of computation or programming)
 60-06 Proceedings, conferences, collections, etc.
60Axx Foundations of probability theory
 60A05 Axioms; other general questions [See also 03B48]
 60A10 Probabilistic measure theory {For ergodic theory, see 28Dxx and 60Fxx}
 60A99 None of the above, but in this section
60Bxx Probability theory on algebraic and topological structures
 60B05 Probability measures on topological spaces
 60B10 Convergence of probability measures
 60B11 Probability theory on linear topological spaces [See also 28C20]
 60B12 Limit theorems for vector-valued random variables (infinite-dimensional case)
 60B15 Probability measures on groups, Fourier transforms, factorization
 60B99 None of the above, but in this section
60C05 Combinatorial probability
60D05 Geometric probability, stochastic geometry, random sets [See also 52A22, 53C65]
60Exx Distribution theory [See also 62Exx, 62Hxx]
 60E05 Distributions: general theory
 60E07 Infinitely divisible distributions; stable distributions
 60E10 Characteristic functions; other transforms
 60E15 Inequalities (Chebyshev, Kolmogorov, etc.)
 60E99 None of the above, but in this section
60Fxx Limit theorems [See also 28Dxx, 60B12]
 60F05 Central limit and other weak theorems
 60F10 Large deviations
 60F15 Strong theorems
 60F17 Functional limit theorems; invariance principles
 60F20 Zero-one laws
 60F25 L^p -limit theorems
 60F99 None of the above, but in this section
60Gxx Stochastic processes
 60G05 Foundations of stochastic processes
 60G07 General theory of processes
 60G09 Exchangeability
 60G10 Stationary processes
 60G12 General second-order processes
 60G15 Gaussian processes
 60G17 Sample path properties
 60G18 Self-similar processes
 60G20 Generalized stochastic processes
 60G25 Prediction theory [See also 62M20]
 60G30 Continuity and singularity of induced measures
 60G35 Applications (signal detection, filtering, etc.) [See also 62M20, 93E10, 93E11, 94Axx]
 60G40 Stopping times; optimal stopping problems; gambling theory [See also 62L15, 90D60]
 60G42 Martingales with discrete parameter
 60G44 Martingales with continuous parameter
 60G46 Martingales and classical analysis
 60G48 Generalizations of martingales
 60G50 Sums of independent random variables
 60G55 Point processes
 60G57 Random measures
 60G60 Random fields
 60G70 Extreme value theory; extremal processes
 60G99 None of the above, but in this section
- 60Hxx Stochastic analysis** [See also 58G32]
 60H05 Stochastic integrals
 60H07 Stochastic calculus of variations and the Malliavin calculus
 60H10 Stochastic ordinary differential equations [See also 34F05]
 60H15 Stochastic partial differential equations [See also 35R60]
 60H20 Stochastic integral equations
 60H25 Random operators and equations [See also 47B80]
 60H30 Applications of stochastic analysis (to PDE, etc.)
 60H99 None of the above, but in this section
60Jxx Markov processes
 60J05 Markov processes with discrete parameter
 60J10 Markov chains with discrete parameter
 60J15 Random walks
 60J20 Applications of discrete Markov processes (social mobility, learning theory, industrial processes, etc.) [See also 90B30, 92H10, 92H35, 92J40]
 60J25 Markov processes with continuous parameter
 60J27 Markov chains with continuous parameter
 60J30 Processes with independent increments
 60J35 Transition functions, generators and resolvents [See also 47D03, 47D07]
 60J40 Right processes
 60J45 Probabilistic potential theory [See also 31Cxx, 31D05]
 60J50 Boundary theory
 60J55 Local time and additive functionals
 60J57 Multiplicative functionals
 60J60 Diffusion processes [See also 58G32]
 60J65 Brownian motion [See also 58G32]
 60J70 Applications of diffusion theory (population genetics, absorption problems, etc.) [See also 92Dxx]
 60J75 Jump processes
 60J80 Branching processes (Galton-Watson, birth-and-death, etc.)
 60J85 Applications of branching processes [See also 92Dxx]
 60J99 None of the above, but in this section
60Kxx Special processes
 60K05 Renewal theory
 60K10 Applications (reliability, demand theory, etc.)
 60K15 Markov renewal processes, semi-Markov processes
 60K20 Applications of Markov renewal processes (reliability, queueing networks, etc.) [See also 90Bxx]
 60K25 Queueing theory [See also 68M20, 90B22]
 60K30 Applications (congestion, allocation, storage, traffic, etc.) [See also 90Bxx]
 60K35 Interacting random processes; statistical mechanics type models; percolation theory [See also 82B43, 82C43]
 60K40 Other physical applications of random processes
 60K99 None of the above, but in this section
- 62-XX STATISTICS (For numerical methods, see 65U05)**
 62-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 62-01 Instructional exposition (textbooks, tutorial papers, etc.)
 62-02 Research exposition (monographs, survey articles)
 62-03 Historical (must also be assigned at least one classification number from Section 01)
 62-04 Explicit machine computation and programs (not the theory of computation or programming)
 62-06 Proceedings, conferences, collections, etc.
 62-07 Data analysis
 62-09 Graphical methods
62Axx Foundations
 62A05 Invariance and group considerations
 62A10 The likelihood approach
 62A15 The Bayesian approach
 62A20 The classical approach
 62A25 The structural approach
 62A30 The fiducial approach
 62A99 None of the above, but in this section
62Bxx Sufficiency and information
 62B05 Sufficient statistics and fields
 62B10 Statistical information theory [See also 94A17]
 62B15 Theory of statistical experiments
 62B20 Measure-theoretic results, etc.
 62B99 None of the above, but in this section
62Cxx Decision theory [See also 90A05, 90B50; for game theory, see 90D35]
 62C05 General considerations
 62C07 Complete class results
 62C10 Bayesian problems; characterization of Bayes procedures
 62C12 Empirical decision procedures; empirical Bayes procedures
 62C15 Admissibility
 62C20 Minimax procedures
 62C25 Compound decision problems
 62C99 None of the above, but in this section

- 62D05** Sampling theory, sample surveys
62Exx Distribution theory [See also 60Exx]
 62E10 Characterization and structure theory
 62E15 Exact distribution theory
 62E17 Approximations to distributions (nonasymptotic)
 62E20 Asymptotic distribution theory
 62E25 Monte Carlo studies
 62E30 Formal computational methods (polykays, etc.)
 62E99 None of the above, but in this section
62Fxx Parametric inference
 62F03 Hypothesis testing
 62F04 Small-sample properties of tests
 62F05 Asymptotic properties of tests
 62F07 Ranking and selection
 62F10 Point estimation
 62F11 Small-sample properties of estimators
 62F12 Asymptotic properties of estimators
 62F15 Bayesian inference
 62F25 Tolerance and confidence regions
 62F30 Inference under constraints
 62F35 Robustness and adaptive procedures
 62F99 None of the above, but in this section
62Gxx Nonparametric inference
 62G05 Estimation
 62G07 Curve estimation (nonparametric regression, density estimation, etc.)
 62G09 Resampling methods
 62G10 Hypothesis testing
 62G15 Tolerance and confidence regions
 62G20 Asymptotic properties
 62G30 Order statistics; empirical distribution functions
 62G35 Robustness
 62G99 None of the above, but in this section
62Hxx Multivariate analysis [See also 60Exx]
 62H05 Characterization and structure theory
 62H10 Distribution of statistics
 62H11 Directional data; spatial statistics
 62H12 Estimation
 62H15 Hypothesis testing
 62H17 Contingency
 62H20 Measures of association (correlation, canonical correlation, etc.)
 62H25 Factor analysis and principal components; correspondence analysis
 62H30 Classification and discrimination; cluster analysis [See also 68T10]
 62H40 Projection pursuit
 62H99 None of the above, but in this section
62Jxx Linear inference, regression
 62J02 General nonlinear regression
 62J05 Linear regression
 62J07 Ridge regression; James-Stein estimators
 62J10 Analysis of variance and covariance
 62J12 Generalized linear models
 62J15 Paired and multiple comparisons
 62J20 Diagnostics
 62J99 None of the above, but in this section
62Kxx Experimental design [See also 05Bxx]
 62K05 Optimal designs
 62K10 Block designs
 62K15 Factorial designs
 62K99 None of the above, but in this section
62Lxx Sequential methods
 62L05 Sequential design
 62L10 Sequential analysis
 62L12 Sequential estimation
 62L15 Optimal stopping [See also 60G40, 90D60]
 62L20 Stochastic approximation
 62L99 None of the above, but in this section
62Mxx Inference from stochastic processes
 62M02 Markov processes: hypothesis testing
 62M05 Markov processes: estimation
 62M07 Non-Markovian processes: hypothesis testing
 62M09 Non-Markovian processes: estimation
 62M10 Time series, auto-correlation, regression, etc. [See also 90A20]
 62M15 Spectral analysis
 62M20 Prediction [See also 60G25]; filtering [See also 60G35, 93E10, 93E11]
 62M30 Spatial processes
 62M40 Random fields
 62M99 None of the above, but in this section
62Nxx Engineering statistics
 62N05 Reliability and life testing [See also 90B25]
 62N10 Quality control
 62N99 None of the above, but in this section
62Pxx Applications [See also 90-XX, 92-XX]
 62P05 Applications to actuarial sciences and financial mathematics
 62P10 Applications to biology
 62P15 Applications to psychology
 62P20 Applications to economics [See also 90Axx]
 62P25 Applications to social sciences
 62P99 None of the above, but in this section
62Q05 Statistical tables
65-XX NUMERICAL ANALYSIS
 65-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 65-01 Instructional exposition (textbooks, tutorial papers, etc.)
 65-02 Research exposition (monographs, survey articles)
 65-03 Historical (must also be assigned at least one classification number from Section 01)
 65-04 Explicit machine computation and programs (not the theory of computation or programming)
 65-05 Experimental papers
 65-06 Proceedings, conferences, collections, etc.
65A05 Tables
65Bxx Acceleration of convergence
 65B05 Extrapolation to the limit, deferred corrections
 65B10 Summation of series
 65B15 Euler-Maclaurin formula
 65B99 None of the above, but in this section
65Cxx Numerical simulation {For theoretical aspects, see 68U20}
 65C05 Monte Carlo methods
 65C10 Random number generation
 65C20 Models, numerical methods
 65C99 None of the above, but in this section
65Dxx Numerical approximation {Primarily algorithms; for theory, see 41-XX}
 65D05 Interpolation
 65D07 Splines
 65D10 Smoothing, curve fitting
 65D15 Algorithms for functional approximation
 65D17 Computer-aided design (modeling of curves and surfaces) [See also 68U05]
 65D20 Computation of special functions, construction of tables
 65D25 Numerical differentiation
 65D30 Numerical integration
 65D32 Quadrature and cubature formulas
 65D99 None of the above, but in this section
65E05 Numerical methods in complex analysis (potential theory, etc.) {For numerical methods in conformal mapping, see 30C30}
65Fxx Numerical linear algebra
 65F05 Direct methods for linear systems and matrix inversion
 65F10 Iterative methods for linear systems [See also 65N22]
 65F15 Eigenvalues, eigenvectors
 65F20 Overdetermined systems, pseudoinverses
 65F25 Orthogonalization
 65F30 Other matrix algorithms
 65F35 Matrix norms, conditioning, scaling [See also 15A12, 15A60]
 65F40 Determinants
 65F50 Sparse matrices
 65F99 None of the above, but in this section
65Gxx Error analysis
 65G05 Roundoff error
 65G10 Interval and finite arithmetic
 65G99 None of the above, but in this section
65Hxx Nonlinear algebraic or transcendental equations
 65H05 Single equations
 65H10 Systems of equations
 65H17 Eigenvalues, eigenvectors and bifurcation problems [See also 58C40, 58E07, 58F14, 90C30]
 65H20 Global methods, including homotopy approaches [See also 58C30, 90C30]
 65H99 None of the above, but in this section
65Jxx Numerical analysis in abstract spaces
 65J05 General theory
 65J10 Equations with linear operators (do not use 65Fxx)
 65J15 Equations with nonlinear operators (do not use 65Hxx)
 65J20 Improperly posed problems
 65J99 None of the above, but in this section
65Kxx Mathematical programming, optimization and variational techniques
 65K05 Mathematical programming [See also 90Cxx]
 65K10 Optimization and variational techniques [See also 49Mxx, 93B40]
 65K99 None of the above, but in this section
65Lxx Ordinary differential equations
 65L05 Initial value problems
 65L06 Multistep, Runge-Kutta and extrapolation methods
 65L07 Numerical investigation of stability of solutions

- 65L08 Improperly posed problems
 65L10 Boundary value problems
 65L12 Finite difference methods
 65L15 Eigenvalue problems
 65L20 Stability of numerical methods
 65L50 Mesh generation and refinement
 65L60 Finite elements, Rayleigh-Ritz, Galerkin and collocation methods
 65L70 Error bounds
 65L99 None of the above, but in this section
65Mxx Partial differential equations, initial value and time-dependent initial-boundary value problems
 65M06 Finite difference methods
 65M12 Stability and convergence of numerical methods
 65M15 Error bounds
 65M20 Method of lines
 65M25 Method of characteristics
 65M30 Improperly posed problems
 65M50 Mesh generation and refinement
 65M55 Multigrid methods; domain decomposition
 65M60 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods
 65M70 Spectral, collocation and related methods
 65M99 None of the above, but in this section
65Nxx Partial differential equations, boundary value problems
 65N06 Finite difference methods
 65N12 Stability and convergence of numerical methods
 65N15 Error bounds
 65N22 Solution of discretized equations [See also 65Fxx, 65Hxx]
 65N25 Eigenvalue problems
 65N30 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods
 65N35 Spectral, collocation and related methods
 65N38 Boundary element methods
 65N40 Method of lines
 65N45 Method of contraction of the boundary
 65N50 Mesh generation and refinement
 65N55 Multigrid methods; domain decomposition
 65N99 None of the above, but in this section
65P05 Partial differential equations, miscellaneous problems
65Q05 Difference and functional equations, recurrence relations
65Rxx Integral equations, integral transforms [See also 45Lxx]
 65R10 Integral transforms
 65R20 Integral equations
 65R30 Improperly posed problems
 65R99 None of the above, but in this section
65S05 Graphical methods
65Txx Numerical methods in Fourier analysis
 65T10 Trigonometric approximation and interpolation
 65T20 Discrete and fast Fourier transforms
 65T99 None of the above, but in this section
65U05 Numerical methods in probability and statistics
65Yxx Computer aspects of numerical algorithms
 65Y05 Parallel computation
 65Y10 Algorithms for specific classes of architectures
 65Y15 Packaged methods
 65Y20 Complexity and performance of numerical algorithms [See also 68Q25]
 65Y25 Computer graphics and computational geometry [See also 51N05, 68U05]
 65Y99 None of the above, but in this section
68-XX COMPUTER SCIENCE {For papers involving machine computations and programs in a specific mathematical area, see Section -04 in that area}
 68-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 68-01 Instructional exposition (textbooks, tutorial papers, etc.)
 68-02 Research exposition (monographs, survey articles)
 68-03 Historical (must also be assigned at least one classification number from Section 01)
 68-04 Explicit machine computation and programs (not the theory of computation or programming)
 68-06 Proceedings, conferences, collections, etc.
68Mxx Computer system organization
 68M05 General
 68M07 Mathematical problems of computer architecture
 68M10 Computer networks [See also 90B12]
 68M15 Reliability and testing
 68M20 Performance evaluation; queueing; scheduling [See also 60K25, 90Bxx]
 68M99 None of the above, but in this section
68Nxx Software
 68N05 General theory of programming
 68N15 Programming languages
 68N17 Logic programming
 68N20 Compilers and generators [See also 68Q52]
 68N25 Monitors and operating systems
 68N99 None of the above, but in this section
68Pxx Theory of data
 68P05 Data structures
 68P10 Searching and sorting
 68P15 Database theory
 68P20 Information storage and retrieval
 68P25 Data encryption [See also 94A60]
 68P99 None of the above, but in this section
68Qxx Theory of computing
 68Q05 Models of computation (abstract processors, Turing machines, etc.) [See also 03D10]
 68Q10 Modes of computation (concurrent, parallel, nondeterministic, etc.) [See also 68Q90]
 68Q15 Complexity classes [See also 03D15]
 68Q20 Nonnumerical algorithms {For numerical algorithms, see 65-XX; for combinatorics and graph theory, see 68Rxx}
 68Q22 Parallel and distributed algorithms {For numerical algorithms, see 65Y05, 65Y10}
 68Q25 Analysis of algorithms and problem complexity
 68Q30 Algorithmic information theory (Kolmogorov complexity, etc.)
 68Q35 VLSI algorithms
 68Q40 Symbolic computation, algebraic computation [See also 11Yxx, 12Y05, 13Pxx, 14Qxx, 16-08, 17-08]
 68Q42 Rewriting systems
 68Q45 Formal languages [See also 03D05, 20M35, 94A45]
 68Q50 Grammars [See also 03D05]
 68Q52 Parsing [See also 68N20]
 68Q55 Semantics [See also 03B70, 06B35]
 68Q60 Specification and verification of programs [See also 03B70]
 68Q65 Abstract data types; algebraic specification
 68Q68 Automata theory, general [See also 03D05]
 68Q70 Algebraic theory of automata [See also 18B20, 20M35]
 68Q75 Stochastic and nondeterministic automata
 68Q80 Tessellation automata, iterative arrays, cellular structures
 68Q90 Transition nets
 68Q99 None of the above, but in this section
68Rxx Discrete mathematics in relation to computer science
 68R05 Combinatorics
 68R10 Graph theory [See also 05Cxx, 90B10, 90B35, 90C35]
 68R15 Combinatorics on words
 68R99 None of the above, but in this section
68S05 Mathematical linguistics [See also 03B65, 92K20]
68Txx Artificial intelligence [See also 92J40]
 68T01 General
 68T05 Learning and adaptive systems
 68T10 Pattern recognition, speech recognition {For cluster analysis, see 62H30}
 68T15 Theorem proving [See also 03B35]
 68T20 Problem solving
 68T25 AI languages
 68T27 AI logics
 68T30 Knowledge representation
 68T35 AI software systems (knowledge-based systems, expert systems, etc.)
 68T99 None of the above, but in this section
68Uxx Computing methodologies
 68U05 Computer graphics; computational geometry [See also 65Y25]
 68U07 Computer-aided design
 68U10 Image processing
 68U15 Text processing; mathematical typography
 68U20 Simulation [See also 65Cxx]
 68U30 Other applications
 68U99 None of the above, but in this section
70-XX MECHANICS OF PARTICLES AND SYSTEMS {For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82-XX}
 70-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 70-01 Instructional exposition (textbooks, tutorial papers, etc.)
 70-02 Research exposition (monographs, survey articles)
 70-03 Historical (must also be assigned at least one classification number from Section 01)
 70-04 Explicit machine computation and programs (not the theory of computation or programming)
 70-05 Experimental papers
 70-06 Proceedings, conferences, collections, etc.
 70-08 Computational methods
70A05 Axiomatics, foundations
70Bxx Kinematics [See also 53A17]
 70B05 Kinematics of a particle
 70B10 Kinematics of a rigid body
 70B15 Mechanisms, robots [See also 73K05]
 70B99 None of the above, but in this section

- 70C20 Statics**
70Dxx Dynamics of a particle [See also 70Hxx]
 70D05 Newtonian dynamics
 70D10 Lagrangian dynamics
 70D99 None of the above, but in this section
70Exx Dynamics of a rigid body
 70E05 Motion of the gyroscope
 70E10 Motion of projectiles and rockets
 70E15 Motion of rigid bodies
 70E20 Perturbation methods for Euler's equations
 70E99 None of the above, but in this section
70Fxx Dynamics of a system of particles, including celestial mechanics
 70F05 Two-body problem
 70F07 Three-body problem
 70F10 n -body problem
 70F15 Celestial mechanics
 70F20 Holonomic systems
 70F25 Nonholonomic systems
 70F30 Impulsive motion
 70F35 Collisions
 70F99 None of the above, but in this section
70Gxx General representations of dynamical systems [See also 58Fxx]
 70G05 Riemannian geometry, tensorial methods [See also 53A45, 53A50, 53B20]
 70G10 Generalized coordinates
 70G15 Space of events
 70G20 Impulse-energy space
 70G25 Configuration space
 70G30 State space
 70G35 Phase space
 70G50 Classical field theories (general)
 70G99 None of the above, but in this section
70Hxx Hamiltonian and Lagrangian mechanics [See also 58F05]
 70H05 Hamilton's equations
 70H10 Liouville's theorem
 70H15 Canonical transformations
 70H20 Hamilton-Jacobi equations
 70H25 Hamilton's principle
 70H30 Other variational principles
 70H33 Symmetries
 70H35 Lagrange's equation of motion
 70H40 Relativistic dynamics
 70H99 None of the above, but in this section
70Jxx Linear vibration theory [See also 73D30]
 70J05 Finite degree of freedom systems
 70J10 Modal analysis
 70J25 Stability
 70J30 Free motions
 70J35 Forced motions
 70J40 Parametric resonances
 70J99 None of the above, but in this section
70Kxx Nonlinear motions [See also 34Cxx, 58Fxx, 73D35, 73K12]
 70K05 Phase plane analysis
 70K10 Limit cycles
 70K15 Lyapunov theorems
 70K20 Stability
 70K25 Free motions
 70K28 Parametric resonances
 70K30 Nonlinear resonances
 70K40 Forced motions
 70K50 Transition to stochasticity (chaotic behavior) [See also 58F13]
 70K99 None of the above, but in this section
70L05 Random vibrations [See also 73K35, 93Exx]
70M20 Orbital mechanics
70P05 Variable mass, rockets
70Q05 Control of mechanical systems [See also 49-XX, 73K50, 93Cxx, 93Dxx]
73-XX MECHANICS OF SOLIDS
 73-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 73-01 Instructional exposition (textbooks, tutorial papers, etc.)
 73-02 Research exposition (monographs, survey articles)
 73-03 Historical (must also be assigned at least one classification number from Section 01)
 73-04 Explicit machine computation and programs (not the theory of computation or programming)
 73-05 Experimental papers
 73-06 Proceedings, conferences, collections, etc.
73A05 Axiomatics, foundations of solid mechanics
73Bxx Continuum mechanics of solids (constitutive description and properties)
 73B05 Constitutive equations
 73B10 Symmetry groups
 73B18 Nonlocal theories
 73B25 Polar theories
 73B27 Nonhomogeneous materials; homogenization
 73B30 Thermodynamics of solids {For gases and fluids, see 80-XX}
 73B35 Random materials
 73B40 Anisotropic materials
 73B50 Stress concentrations
 73B99 None of the above, but in this section
73Cxx Elasticity [For the biharmonic equation, see 31A30, 31B30]
 73C02 Classical linear elasticity
 73C05 Stress functions
 73C10 Saint-Venant's principle
 73C15 Uniqueness theorems
 73C35 Mixed boundary value problems [See also 45F05]
 73C50 Nonlinear elasticity
 73C99 None of the above, but in this section
73Dxx Wave propagation in and vibrations of solids
 73D05 Impact and explosion problems [See also 76L05]
 73D10 Integral transforms
 73D15 Body waves
 73D20 Surface waves
 73D25 Wave diffraction and dispersion
 73D30 Linear vibrations [See also 70Jxx]
 73D35 Nonlinear vibrations [See also 70Kxx]
 73D40 Singular surfaces
 73D50 Inverse problems [See also 35Lxx, 35R30]
 73D70 Random waves
 73D99 None of the above, but in this section
73Exx Plasticity
 73E05 Constitutive specifications (yield criteria, flow rules, hardening, softening)
 73E10 Method of successive approximations
 73E20 Limit analysis
 73E50 Time-dependent problems
 73E60 Viscoplasticity
 73E70 Plastic waves
 73E99 None of the above, but in this section
73Fxx Viscoelasticity
 73F05 Creep and relaxation functions
 73F10 Correspondence principle
 73F15 Time-dependent problems
 73F20 Aging of materials
 73F25 Environmental-dependent materials
 73F99 None of the above, but in this section
73Gxx Finite deformations
 73G05 Finite elasticity
 73G20 Finite plasticity
 73G25 Finite viscoelasticity
 73G99 None of the above, but in this section
73Hxx Stability (linear and nonlinear)
 73H05 Buckling
 73H10 Dynamic stability
 73H99 None of the above, but in this section
73Kxx Mechanics of structures
 73K03 Strings
 73K05 Beams, columns, rods
 73K10 Plates, discs, membranes
 73K12 Dynamics of structures
 73K15 Shells
 73K20 Composite structures and materials
 73K35 Random vibrations
 73K40 Optimization [See also 90C90]
 73K50 Control of structures
 73K70 Aero- or hydromechanic structure interactions
 73K99 None of the above, but in this section
73M25 Fracture mechanics
 73N20 Geophysical solid mechanics [See also 86A15, 86A17]
 73P20 Biomechanics of solids [See also 92C10]
 73Q05 Soil and rock mechanics [See also 86A60]
 73R05 Electromagnetic elasticity
 73S10 Micromechanics of solids
 73T05 Contact and surface mechanics
 73Vxx Basic methods in solid mechanics [See also 65-xx]
 73V05 Finite element methods
 73V10 Boundary element methods
 73V15 Finite difference methods
 73V20 Other numerical methods
 73V25 Variational methods
 73V30 Stochastic analysis

- 73V35 Complex variable techniques
 73V99 None of the above, but in this section
- 76-XX FLUID MECHANICS** {For general continuum mechanics, see 73Bxx, or other parts of 73-XX}
- 76-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 76-01 Instructional exposition (textbooks, tutorial papers, etc.)
 76-02 Research exposition (monographs, survey articles)
 76-03 Historical (must also be assigned at least one classification number from Section 01)
 76-04 Explicit machine computation and programs (not the theory of computation or programming)
 76-05 Experimental papers
 76-06 Proceedings, conferences, collections, etc.
- 76Axx Foundations, constitutive equations, rheology**
 76A02 Foundations of fluid mechanics
 76A05 Non-Newtonian fluids
 76A10 Viscoelastic fluids
 76A15 Liquid crystals [See also 82D30]
 76A99 None of the above, but in this section
- 76Bxx Incompressible inviscid fluids, potential theory**
 76B05 Airfoil theory
 76B10 Jets and cavities, cavitation, free-streamline theory, water-entry problems, hydrofoil theory, sloshing
 76B15 Water waves, gravity waves; dispersion and diffraction, nonlinear interaction [See also 35Q53]
 76B20 Ship waves
 76B25 Solitary and cnoidal waves [See also 35Q51]
 76B35 Random waves, inviscid fluids
 76B40 Added mass computations
 76B45 Capillarity
 76B99 None of the above, but in this section
- 76Cxx Incompressible viscous fluids, vorticity flows**
 76C05 Vorticity flows
 76C10 Internal waves
 76C15 Atmospheric waves
 76C20 Rossby waves
 76C99 None of the above, but in this section
- 76Dxx Incompressible viscous fluids**
 76D05 Navier-Stokes equations [See also 35Q30]
 76D07 Stokes flows
 76D08 Lubrication theory
 76D10 Boundary-layer theory
 76D15 Boundary-layer separation and reattachment
 76D20 Higher-order effects in boundary layers
 76D25 Wakes and jets
 76D30 Singular perturbation problems
 76D33 Waves
 76D35 Random waves, viscous fluids
 76D45 Capillarity [See also 76B45]
 76D99 None of the above, but in this section
- 76Exx Hydrodynamic stability**
 76E05 Stability of parallel flows
 76E10 Inertial instability
 76E15 Convective instability
 76E20 Instability of geophysical and astrophysical flows
 76E25 Magnetohydrodynamic and electrohydrodynamic instabilities
 76E30 Nonlinear effects
 76E99 None of the above, but in this section
- 76Fxx Turbulence** [See also 58F13, 58F27, 60Gxx, 60Jxx]
 76F05 Homogeneous isotropic turbulence
 76F10 Shear flows
 76F20 Turbulence via chaos techniques
 76F99 None of the above, but in this section
- 76G25 General aerodynamics and subsonic flows**
 76H05 Transonic flows
 76J20 Supersonic flows
 76K05 Hypersonic flows
 76L05 Shock waves and blast waves [See also 35L67, 73D05]
- 76Mxx Basic methods in fluid mechanics** [See also 65-XX]
 76M10 Finite element methods
 76M15 Boundary element methods
 76M20 Finite difference methods
 76M25 Other numerical methods
 76M30 Variational methods
 76M35 Stochastic analysis
 76M99 None of the above, but in this section
- 76Nxx Compressible fluids and gas dynamics, general**
 76N10 Compressible fluids, general [See also 35Q30]
 76N15 Gas dynamics, general
 76N20 Boundary-layer theory
 76N99 None of the above, but in this section
- 76P05 Rarefied gas flows, Boltzmann equation** [See also 82B40, 82C40, 82D05]
- 76Q05 Hydrodynamic sound, acoustics**
 76Rxx Diffusion and convection
 76R05 Forced convection
 76R10 Free convection
 76R50 Diffusion [See also 60J60]
 76R99 None of the above, but in this section
- 76S05 Flows in porous media; filtration; seepage**
 76T05 Two-phase and multiphase flows
 76U05 Rotating fluids
 76V05 Stratified and reacting fluids
 76W05 Magnetohydrodynamics and electrohydrodynamics
 76X05 Ionized gas flow in electromagnetic fields; plasma flow
 76Y05 Quantum hydrodynamics and relativistic hydrodynamics [See also 83C55, 85A30]
- 76Zxx Biological fluid mechanics** [See also 92Cxx]
 76Z05 Physiological flows [See also 92C35]
 76Z10 Biopropulsion in water and in air
 76Z99 None of the above, but in this section
- 78-XX OPTICS, ELECTROMAGNETIC THEORY** {For quantum optics, see 81V80}
- 78-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 78-01 Instructional exposition (textbooks, tutorial papers, etc.)
 78-02 Research exposition (monographs, survey articles)
 78-03 Historical (must also be assigned at least one classification number from Section 01)
 78-04 Explicit machine computation and programs (not the theory of computation or programming)
 78-05 Experimental papers
 78-06 Proceedings, conferences, collections, etc.
- 78-08 Computational methods**
 78A02 Foundations
 78A05 Geometric optics
 78A10 Physical optics
 78A15 Electron optics
 78A20 Space charge waves
 78A25 Electromagnetic theory, general
 78A30 Electro- and magnetostatics
 78A35 Motion of charged particles
 78A40 Waves and radiation
 78A45 Diffraction, scattering [See also 34E20 for WKB methods]
 78A50 Antennas, wave-guides
 78A55 Technical applications
 78A60 Lasers, masers, optical bistability, nonlinear optics [See also 81V80]
 78A70 Biological applications [See also 92C30, 92J30]
 78A97 Mathematically heuristic optics and electromagnetic theory (must also be assigned at least one other classification number in this section)
 78A99 Miscellaneous topics
- 80-XX CLASSICAL THERMODYNAMICS, HEAT TRANSFER** {For thermodynamics of solids, see 73B30}
- 80-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 80-01 Instructional exposition (textbooks, tutorial papers, etc.)
 80-02 Research exposition (monographs, survey articles)
 80-03 Historical (must also be assigned at least one classification number from Section 01)
 80-04 Explicit machine computation and programs (not the theory of computation or programming)
 80-05 Experimental papers
 80-06 Proceedings, conferences, collections, etc.
- 80-08 Computational methods**
 80A05 Foundations
 80A10 Classical thermodynamics
 80A15 Thermodynamics of mixtures
 80A20 Heat and mass transfer, heat flow
 80A22 Stefan problems, phase changes, etc.
 80A23 Inverse problems
 80A25 Combustion, interior ballistics
 80A30 Chemical kinetics [See also 92C45, 92E20]
 80A32 Chemically reacting flows [See also 92C45, 92E20]
 80A50 Chemistry (general) [See mainly 92Exx]
 80A97 Mathematically heuristic classical thermodynamics (must also be assigned at least one other classification number in this section)
 80A99 Miscellaneous topics
- 81-XX QUANTUM THEORY**
 81-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 81-01 Instructional exposition (textbooks, tutorial papers, etc.)
 81-02 Research exposition (monographs, survey articles)
 81-03 Historical (must also be assigned at least one classification number from Section 01)

- 81-04 Explicit machine computation and programs (not the theory of computation or programming)
- 81-05 Experimental papers
- 81-06 Proceedings, conferences, collections, etc.
- 81-08 Computational methods
- 81Pxx Axiomatics, foundations, philosophy**
- 81P05 General and philosophical
- 81P10 Logical foundations of quantum mechanics
- 81P15 Quantum measurement theory
- 81P20 Stochastic mechanics (including stochastic electrodynamics)
- 81P99 None of the above, but in this section
- 81Qxx General mathematical topics and methods in quantum theory**
- 81Q05 Closed and approximate solutions to the Schrödinger, Dirac, Klein-Gordon and other quantum mechanical equations
- 81Q10 Selfadjoint operator theory in quantum theory, including spectral analysis
- 81Q15 Perturbation theories for operators and differential equations
- 81Q20 Semiclassical techniques including WKB and Maslov methods
- 81Q30 Feynman integrals and graphs; applications of algebraic topology and algebraic geometry [See also 14D05, 32S40]
- 81Q40 Bethe-Salpeter and other integral equations
- 81Q50 Quantum chaos [See also 58F13]
- 81Q60 Supersymmetric quantum mechanics
- 81Q99 None of the above, but in this section
- 81Rxx Groups and algebras in quantum theory**
- 81R05 Representations of finite-dimensional groups and algebras motivated by physics [See also 20C35, 22E70]
- 81R10 Representations of infinite-dimensional groups and algebras motivated by physics, including Virasoro, Kac-Moody and other current algebras [See also 17B65, 17B67, 22E65, 22E67, 22E70]
- 81R20 Covariant wave equations
- 81R25 Spinor and twistor methods [See also 32L25]
- 81R30 Coherent states [See also 22E45]
- 81R40 Symmetry breaking
- 81R50 Quantum groups and related algebraic methods [See also 16W30, 17B37]
- 81R99 None of the above, but in this section
- 81Sxx General quantum mechanics and problems of quantization**
- 81S05 Commutation relations
- 81S10 Geometric quantization, symplectic methods [See also 58F06]
- 81S20 Stochastic quantization
- 81S25 Quantum stochastic calculus
- 81S30 Phase space methods including Wigner distributions, etc.
- 81S40 Path integrals [See also 58D30]
- 81S99 None of the above, but in this section
- 81Txx Quantum field theory; related classical field theories**
- 81T05 Axiomatic quantum field theory; operator algebras
- 81T08 Constructive quantum field theory
- 81T10 Model quantum field theories
- 81T13 Yang-Mills and other gauge theories [See also 53C07, 58E15]
- 81T15 Perturbative methods of renormalization
- 81T16 Nonperturbative methods of renormalization
- 81T17 Renormalization group methods
- 81T18 Feynman diagrams
- 81T20 Quantum field theory on curved space backgrounds
- 81T25 Quantum field theory on lattices
- 81T27 Continuum limits
- 81T30 String and superstring theories; other extended objects [See also 83E30]
- 81T40 Two-dimensional field theories, conformal field theories, etc.
- 81T50 Anomalies
- 81T60 Supersymmetric field theories
- 81T70 Quantization in field theory; cohomological methods [See also 58F06]
- 81T80 Simulation and numerical modeling
- 81T99 None of the above, but in this section
- 81Uxx Scattering theory [See also 47A40]**
- 81U05 2-body potential scattering theory [See also 34E20 for WKB methods]
- 81U10 n -body potential scattering theory
- 81U20 S -matrix theory, etc.
- 81U30 Dispersion theory, dispersion relations
- 81U40 Inverse scattering problems [See also 58F07, 58F19]
- 81U99 None of the above, but in this section
- 81Vxx Applications to specific physical systems**
- 81V05 Strong interaction, including quantum chromodynamics
- 81V10 Electromagnetic interaction; quantum electrodynamics
- 81V15 Weak interaction
- 81V17 Gravitational interaction
- 81V19 Other fundamental interactions
- 81V22 Unified theories
- 81V25 Other elementary particle theory
- 81V35 Nuclear physics
- 81V45 Atomic physics
- 81V55 Molecular physics [See also 92E10]
- 81V70 Many-body theory
- 81V80 Quantum optics
- 81V99 None of the above, but in this section
- 82-XX STATISTICAL MECHANICS, STRUCTURE OF MATTER**
- 82-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 82-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 82-02 Research exposition (monographs, survey articles)
- 82-03 Historical (must also be assigned at least one classification number from Section 01)
- 82-04 Explicit machine computation and programs (not the theory of computation or programming)
- 82-05 Experimental papers
- 82-06 Proceedings, conferences, collections, etc.
- 82-08 Computational methods
- 82Bxx Equilibrium statistical mechanics**
- 82B03 Foundations
- 82B05 Classical equilibrium statistical mechanics (general)
- 82B10 Quantum equilibrium statistical mechanics (general)
- 82B20 Lattice systems (Ising, dimer, Potts, etc.)
- 82B21 Continuum models (systems of particles, etc.)
- 82B23 Exactly solvable models
- 82B24 Interface problems
- 82B26 Phase transitions (general)
- 82B27 Critical phenomena
- 82B28 Renormalization group methods [See also 81T17]
- 82B30 Statistical thermodynamics [See also 80-XX]
- 82B31 Stochastic methods
- 82B35 Irreversible thermodynamics, including Onsager-Machlup theory [See also 92E20]
- 82B40 Kinetic theory of gases
- 82B41 Random walks, random surfaces, lattice animals, etc. [See also 60J15, 82C41]
- 82B43 Percolation [See also 60K35]
- 82B44 Disordered systems (random Ising models, random Schrödinger operators, etc.)
- 82B80 Numerical methods (Monte Carlo, series resummation, etc.) [See also 65-XX, 81T80]
- 82B99 Miscellaneous topics
- 82Cxx Time-dependent statistical mechanics (dynamic and nonequilibrium)**
- 82C03 Foundations
- 82C05 Classical dynamic and nonequilibrium statistical mechanics (general)
- 82C10 Quantum dynamics and nonequilibrium statistical mechanics (general)
- 82C20 Dynamic lattice systems (kinetic Ising, etc.)
- 82C21 Dynamic continuum models (systems of particles, etc.)
- 82C22 Interacting particle systems [See also 60K35]
- 82C23 Exactly solvable dynamic models [See also 58F07]
- 82C24 Interface problems
- 82C26 Dynamic and nonequilibrium phase transitions (general)
- 82C27 Dynamic critical phenomena
- 82C28 Dynamic renormalization group methods [See also 81T17]
- 82C31 Stochastic methods (Fokker-Planck, Langevin, etc.) [See also 60H10]
- 82C32 Neural nets [See also 68T05, 92B20, 92J40]
- 82C35 Irreversible thermodynamics, including Onsager-Machlup theory
- 82C40 Kinetic theory of gases
- 82C41 Dynamics of random walks, random surfaces, lattice animals, etc. [See also 60J15]
- 82C43 Time-dependent percolation [See also 60K35]
- 82C44 Dynamics of disordered systems (random Ising systems, etc.)
- 82C70 Transport processes
- 82C80 Numerical methods (Monte Carlo, series resummation, etc.)
- 82C99 None of the above, but in this section
- 82Dxx Applications to specific types of physical systems**
- 82D05 Gases
- 82D10 Plasmas
- 82D15 Liquids
- 82D20 Solids
- 82D25 Crystals [For crystallographic group theory, see 20H15]
- 82D30 Random media, disordered materials (including liquid crystals and spin glasses)
- 82D35 Metals
- 82D40 Magnetic materials
- 82D45 Ferroelectrics
- 82D50 Superfluids
- 82D55 Superconductors
- 82D60 Polymers
- 82D75 Nuclear reactor theory
- 82D99 None of the above, but in this section

83-XX RELATIVITY AND GRAVITATIONAL THEORY

- 83-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 83-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 83-02 Research exposition (monographs, survey articles)
- 83-03 Historical (must also be assigned at least one classification number from Section 01)
- 83-04 Explicit machine computation and programs (not the theory of computation or programming)
- 83-05 Experimental papers
- 83-06 Proceedings, conferences, collections, etc.
- 83-08 Computational methods
- 83A05 Special relativity**
- 83B05 Observational and experimental questions**
- 83Cxx General relativity**
- 83C05 Einstein's equations (general structure, canonical formalism, Cauchy problems)
- 83C10 Equations of motion
- 83C15 Exact solutions
- 83C20 Classes of solutions; algebraically special solutions, metrics with symmetries
- 83C22 Electromagnetic fields, Einstein-Maxwell equations
- 83C25 Approximation procedures, weak fields
- 83C27 Lattice gravity, Regge calculus and other discrete methods
- 83C30 Asymptotic procedures (radiation, news functions, \mathcal{H} -spaces, etc.)
- 83C35 Gravitational waves
- 83C40 Gravitational energy and conservation laws; groups of motions
- 83C45 Quantization of the gravitational field
- 83C47 Quantum field theory aspects [See also 81T20]
- 83C50 Electromagnetic fields
- 83C55 Macroscopic interaction of the gravitational field with matter (hydrodynamics, etc.)
- 83C57 Black holes
- 83C60 Spinor and twistor methods
- 83C75 Space-time singularities, cosmic censorship, etc.
- 83C99 None of the above, but in this section
- 83D05 Relativistic gravitational theories other than Einstein's, including asymmetric field theories**
- 83Exx Unified, higher-dimensional and super field theories**
- 83E05 Geometrodynamics
- 83E15 Kaluza-Klein and other higher-dimensional theories
- 83E30 String and superstring theories [See also 81T30]
- 83E50 Supergravity
- 83E99 None of the above, but in this section
- 83F05 Cosmology**
- 85-XX ASTRONOMY AND ASTROPHYSICS {For celestial mechanics, see 70F15}**
- 85-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 85-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 85-02 Research exposition (monographs, survey articles)
- 85-03 Historical (must also be assigned at least one classification number from Section 01)
- 85-04 Explicit machine computation and programs (not the theory of computation or programming)
- 85-05 Experimental papers
- 85-06 Proceedings, conferences, collections, etc.
- 85-08 Computational methods
- 85A04 General
- 85A05 Galactic and stellar dynamics
- 85A15 Galactic and stellar structure
- 85A20 Stellar atmospheres
- 85A25 Radiative transfer
- 85A30 Hydrodynamic and hydromagnetic problems [See also 76Y05]
- 85A35 Statistical astronomy
- 85A40 Cosmology {For relativistic cosmology, see 83F05}
- 85A45 Radio astronomy
- 85A99 Miscellaneous topics

86-XX GEOPHYSICS [See also 73N20, 76U05, 76V05]

- 86-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 86-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 86-02 Research exposition (monographs, survey articles)
- 86-03 Historical (must also be assigned at least one classification number from Section 01)
- 86-04 Explicit machine computation and programs (not the theory of computation or programming)
- 86-05 Experimental papers
- 86-06 Proceedings, conferences, collections, etc.
- 86-08 Computational methods
- 86A04 General
- 86A05 Hydrology, hydrography, oceanography [See also 76B15, 76B20, 76B25, 76C15, 76E20, 76Q05, 76Rxx, 76U05]

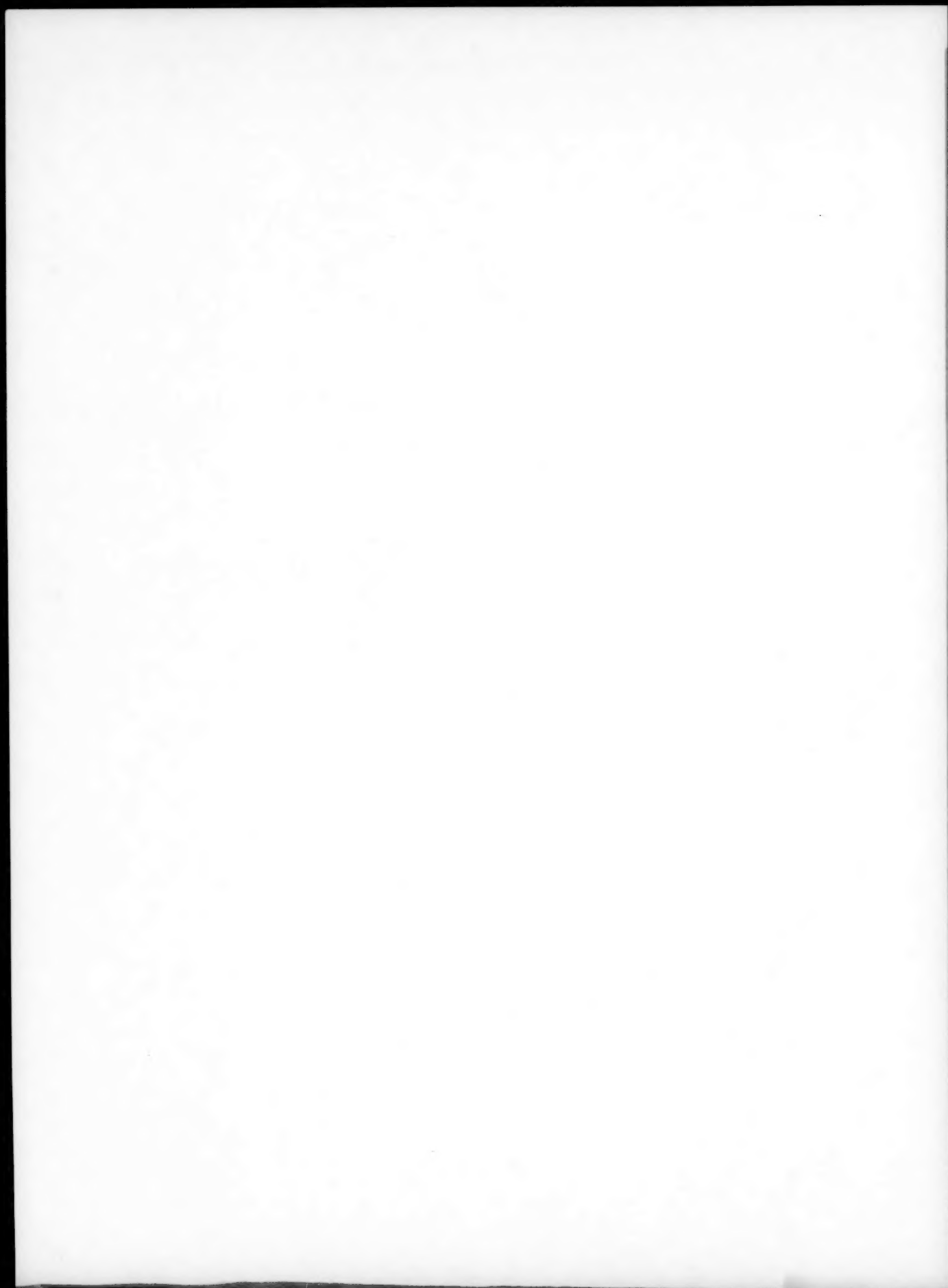
- 86A10 Meteorology and atmospheric physics [See also 76Bxx, 76C15, 76C20, 76E20, 76N15, 76Q05, 76Rxx, 76U05, 76V05]
- 86A15 Seismology [See also 73Dxx, 73Fxx, 73M25, 73N20, 73Q05]
- 86A17 Global dynamics, earthquake problems
- 86A20 Potentials, prospecting [See also 76S05, 76W05]
- 86A22 Inverse problems [See also 35R30]
- 86A25 Geo-electricity and geomagnetism [See also 78A25]
- 86A30 Geodesy, mapping problems
- 86A32 Geostatistics
- 86A40 Glaciology
- 86A60 Geological problems
- 86A99 Miscellaneous topics

90-XX ECONOMICS, OPERATIONS RESEARCH, PROGRAMMING, GAMES

- 90-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 90-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 90-02 Research exposition (monographs, survey articles)
- 90-03 Historical (must also be assigned at least one classification number from Section 01)
- 90-04 Explicit machine computation and programs (not the theory of computation or programming)
- 90-06 Proceedings, conferences, collections, etc.
- 90-08 Computational methods
- 90Axx Mathematical economics {For econometrics, see 62P20}**
- 90A05 Decision theory [See also 62Cxx, 90B50, 90D35]
- 90A06 Individual preferences
- 90A07 Group preferences
- 90A08 Social choice
- 90A09 Finance, portfolios, investment
- 90A10 Utility theory
- 90A11 Production theory, theory of the firm
- 90A12 Price theory and market structure
- 90A14 Equilibrium: general theory
- 90A15 General economic models, trade models
- 90A16 Dynamic economic models, growth models
- 90A17 Multisectoral models
- 90A19 Statistical models; economic indexes and measures
- 90A20 Economic time series analysis [See also 62M10]
- 90A25 Spatial models
- 90A27 Public goods
- 90A28 Voting theory
- 90A30 Environmental economics (natural resource models, harvesting, pollution, etc.)
- 90A35 Informational economics
- 90A36 Incentives theory
- 90A40 Consumer behavior, demand theory
- 90A43 Expected utility; risk-averse utility
- 90A46 Risk theory
- 90A50 Labor market
- 90A53 Special types of economies
- 90A56 Special types of equilibria
- 90A58 Models of real-world systems; general macro-economic models, etc.
- 90A60 Market models (auctions, bargaining, bidding, selling, etc.)
- 90A70 Macro-economic policy-making, taxation
- 90A80 Resource allocation
- 90A99 None of the above, but in this section
- 90Bxx Operations research and management science**
- 90B05 Inventory, storage, reservoirs
- 90B06 Transportation, logistics
- 90B10 Flows in networks, deterministic
- 90B12 Communication networks [See also 68M10, 94A05]
- 90B15 Flows in networks, probabilistic
- 90B20 Highway traffic
- 90B22 Queues and service [See also 60K25, 68M20]
- 90B25 Reliability, availability, maintenance, inspection [See also 60K10, 62N05]
- 90B30 Production models
- 90B35 Scheduling theory [See also 68M20]
- 90B40 Search theory
- 90B50 Management decision-making, including multiple objectives [See also 90A05, 90C31, 90D35]
- 90B60 Marketing, advertising [See also 90A60]
- 90B70 Theory of organizations, industrial and manpower planning [See also 92H35]
- 90B80 Discrete location and assignment [See also 90C10]
- 90B85 Continuous location
- 90B90 Case-oriented studies
- 90B99 None of the above, but in this section

- 90Cxx Mathematical programming** [See also 49Mxx, 65Kxx]
- 90C05 Linear programming
- 90C06 Large-scale problems
- 90C08 Special problems of linear programming (transportation, multi-index, etc.)
- 90C09 Boolean programming
- 90C10 Integer programming
- 90C11 Mixed integer programming
- 90C15 Stochastic programming
- 90C20 Quadratic programming
- 90C25 Convex programming
- 90C26 Nonconvex programming, quasiconvex programming
- 90C27 Combinatorial optimization
- 90C28 Geometric programming
- 90C29 Multi-objective and goal programming; vector optimization
- 90C30 Nonlinear programming
- 90C31 Sensitivity, stability, parametric optimization
- 90C32 Fractional programming
- 90C33 Complementarity problems
- 90C34 Semi-infinite programming
- 90C35 Programming involving graphs or networks
- 90C39 Dynamic programming [See also 49L20]
- 90C40 Markov and semi-Markov decision processes
- 90C42 Markov programming and Markov renewal programming
- 90C45 Continuous programming
- 90C48 Programming in abstract spaces
- 90C60 Abstract computational complexity for mathematical programming problems [See also 68Q25]
- 90C70 Fuzzy programming
- 90C90 Applications of mathematical programming
- 90C99 None of the above, but in this section
- 90Dxx Game theory**
- 90D05 2-person games
- 90D06 n -person games, $n > 2$
- 90D10 Noncooperative games
- 90D12 Cooperative games
- 90D13 Games with infinitely many players
- 90D15 Stochastic games [See also 93E05]
- 90D20 Multistage and repeated games
- 90D25 Differential games [See also 49N55]
- 90D26 Pursuit and evasion games
- 90D35 Decision theory for games [See also 62Cxx, 90A05, 90B50]
- 90D40 Game-theoretic models [See also 65Cxx]
- 90D42 Positional games
- 90D43 Games involving graphs
- 90D44 Games involving topology or set theory
- 90D46 Combinatorial games
- 90D50 Discrete-time games
- 90D55 Games of timing
- 90D60 Probabilistic games; gambling
- 90D65 Hierarchical games
- 90D70 Spaces of games
- 90D80 Applications of game theory
- 90D99 None of the above, but in this section
- 92-XX BIOLOGY AND OTHER NATURAL SCIENCES, BEHAVIORAL SCIENCES**
- 92-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 92-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 92-02 Research exposition (monographs, survey articles)
- 92-03 Historical (must also be assigned at least one classification number from Section 01)
- 92-04 Explicit machine computation and programs (not the theory of computation or programming)
- 92-06 Proceedings, conferences, collections, etc.
- 92-08 Computational methods
- 92Bxx Mathematical biology in general**
- 92B05 General biology and biomathematics
- 92B10 Taxonomy, statistics
- 92B15 General biostatistics [See also 62P10]
- 92B20 Neural networks [See also 68T05, 82C32, 94Cxx]
- 92B99 None of the above, but in this section
- 92Cxx Physiological, cellular and medical topics**
- 92C05 Biophysics
- 92C10 Biomechanics [See also 73P20]
- 92C15 Developmental biology, pattern formation
- 92C20 Neural biology
- 92C30 Physiology (general)
- 92C35 Physiological flow [See also 76Z05]
- 92C40 Biochemistry, molecular biology
- 92C45 Kinetics in biochemical problems (pharmacokinetics, enzyme kinetics, etc.) [See also 80A30]
- 92C50 Medical applications (general)
- 92C55 Tomography [See also 44A12, 65R10]
- 92C60 Medical epidemiology
- 92C99 None of the above, but in this section
- 92Dxx Genetics and population dynamics**
- 92D10 Genetics {For genetic algebras, see 17D92}
- 92D15 Problems related to evolution
- 92D20 Protein sequences, DNA sequences
- 92D25 Population dynamics (general)
- 92D30 Epidemiology
- 92D40 Ecology
- 92D50 Animal behavior
- 92D99 None of the above, but in this section
- 92Exx Chemistry** {For biochemistry, see 92C40}
- 92E10 Molecular structure (graph-theoretic methods, methods of differential topology, etc.)
- 92E20 Classical flows, reactions, etc. [See also 80A30, 80A32]
- 92E99 None of the above, but in this section
- 92F05 Other natural sciences**
- 92Gxx Social and behavioral sciences: methodology** {For statistics, see 62-XX}
- 92G05 Measurement theory
- 92G15 One- and multidimensional scaling
- 92G20 Test theory
- 92G25 Questionnaire analysis
- 92G30 Clustering [See also 62H30]
- 92G40 Q-analysis
- 92G99 None of the above, but in this section
- 92Hxx Mathematical sociology (including anthropology)**
- 92H10 Models of societies, social and urban evolution
- 92H20 Mathematical geography and demography
- 92H25 Spatial models [See also 90A25]
- 92H30 Social networks
- 92H35 Manpower systems [See also 90A50, 90B70]
- 92H99 None of the above, but in this section
- 92Jxx Mathematical psychology**
- 92J10 Cognitive psychology
- 92J30 Psychophysics and psychophysiology; perception
- 92J40 Memory and learning [See also 68T05]
- 92J45 Measurement and performance
- 92J99 None of the above, but in this section
- 92Kxx Other social and behavioral sciences (mathematical treatment)**
- 92K10 History, political science
- 92K20 Linguistics [See also 03B65, 68S05]
- 92K99 None of the above, but in this section
- 93-XX SYSTEMS THEORY; CONTROL** {For optimal control, see 49-XX}
- 93-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 93-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 93-02 Research exposition (monographs, survey articles)
- 93-03 Historical (must also be assigned at least one classification number from Section 01)
- 93-04 Explicit machine computation and programs (not the theory of computation or programming)
- 93-06 Proceedings, conferences, collections, etc.
- 93Axx General**
- 93A05 Axiomatic system theory
- 93A10 General systems
- 93A13 Hierarchical systems
- 93A14 Decentralized systems
- 93A15 Large-scale systems
- 93A20 Cascaded systems
- 93A25 Input-output systems
- 93A30 Mathematical modeling (models of systems, model-matching, etc.)
- 93A99 None of the above, but in this section
- 93Bxx Controllability, observability, and system structure**
- 93B03 Attainable sets
- 93B05 Controllability
- 93B06 Relations between controllability and optimal solutions
- 93B07 Observability
- 93B10 Canonical structure
- 93B11 System structure simplification
- 93B12 Variable structure systems
- 93B15 Realizability of systems from input-output data
- 93B17 Transformation
- 93B18 Linearizability
- 93B20 Minimal systems representations
- 93B25 Algebraic methods
- 93B27 Geometric methods (including algebro-geometric)
- 93B28 Operator-theoretic methods [See also 47A57, 47N70]
- 93B29 Differential-geometric methods
- 93B30 System identification
- 93B35 Sensitivity (robustness)

- 93B36 H^∞ -control
 93B40 Computational methods
 93B50 Synthesis problems
 93B51 Design techniques (robust design, computer-aided design, etc.)
 93B52 Feedback control
 93B55 Pole and zero placement problems
 93B60 Eigenvalue problems
 93B99 None of the above, but in this section
93Cxx Control systems, guided systems
 93C05 Linear
 93C10 Nonlinear
 93C15 Systems governed by ordinary differential equations
 93C20 Systems governed by partial differential equations
 93C22 Systems governed by integral equations
 93C25 Systems in abstract spaces
 93C30 Systems governed by functional relations other than differential or integral equations
 93C35 Multivariable, multidimensional systems
 93C40 Adaptive control systems
 93C41 Problems with incomplete information
 93C42 Fuzzy control
 93C45 Time-invariant
 93C50 Time-dependent
 93C55 Discrete-time
 93C57 Sampled-data
 93C60 Continuous-time
 93C62 Digital systems
 93C70 Time-scale analysis and related topics
 93C73 Perturbations in control systems
 93C80 Frequency-response methods
 93C83 Control problems involving computers (process control, etc.)
 93C85 Automated systems (robots, etc.)
 93C90 Random disturbances in control systems
 93C95 Applications of control theory
 93C99 None of the above, but in this section
93Dxx Stability
 93D05 Lyapunov and other classical stabilities (Lagrange, Poisson, L^p , l^p , etc.)
 93D09 Robust stability
 93D10 Popov-type stability of feedback systems
 93D15 Stabilization of systems by feedback
 93D20 Asymptotic stability
 93D21 Adaptive and robust stabilization
 93D22 Interrelations between stability problems and optimization problems
 93D25 Input-output approaches
 93D30 Scalar and vector Lyapunov functions
 93D99 None of the above, but in this section
93Exx Stochastic systems and control
 93E03 Stochastic systems, general
 93E05 Stochastic games, stochastic differential games [See also 90D15]
 93E10 Estimation and detection [See also 60G35]
 93E11 Filtering [See also 60G35]
 93E12 System identification
 93E14 Data smoothing
 93E15 Stochastic stability
 93E20 Optimal stochastic control
 93E23 Stochastic gradient methods
 93E24 Least squares and related methods
 93E25 Other computational methods
 93E30 Computer simulations of stochastic systems
 93E35 Stochastic learning and adaptive control
 93E99 None of the above, but in this section
94-XX INFORMATION AND COMMUNICATION, CIRCUITS
 94-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 94-01 Instructional exposition (textbooks, tutorial papers, etc.)
 94-02 Research exposition (monographs, survey articles)
 94-03 Historical (must also be assigned at least one classification number from Section 01)
 94-04 Explicit machine computation and programs (not the theory of computation or programming)
 94-06 Proceedings, conferences, collections, etc.
94Axx Communication, information
 94A05 Communication theory [See also 60G35, 90B12]
 94A11 Application of orthogonal functions in communication
 94A12 Signal theory (characterization, reconstruction, etc.)
 94A13 Detection theory
 94A14 Modulation and demodulation
 94A15 Information theory, general [See also 62B10]
 94A17 Measures of information, entropy
 94A24 Coding theorems (Shannon theory)
 94A29 Source coding
 94A34 Rate-distortion theory
 94A40 Channel models
 94A45 Prefix, length-variable, comma-free codes [See also 20M35, 68Q45]
 94A50 Theory of questionnaires
 94A55 Shift register sequences
 94A60 Cryptography [See also 11T71, 68P25]
 94A99 None of the above, but in this section
94Bxx Theory of error-correcting codes
 94B05 Linear codes, general
 94B10 Convolutional codes
 94B12 Combined modulation schemes (including trellis codes)
 94B15 Cyclic codes
 94B20 Burst-correcting codes
 94B25 Combinatorial codes
 94B27 Geometric methods (including applications of algebraic geometry) [See also 11T71]
 94B30 Majority codes
 94B35 Decoding
 94B40 Arithmetic codes [See also 11T71]
 94B50 Synchronization error-correcting codes
 94B60 Other types of codes
 94B65 Bounds on codes
 94B70 Error probability
 94B75 Applications of the theory of convex sets and geometry of numbers (covering radius, etc.) [See also 11H31]
 94B99 None of the above, but in this section
94Cxx Circuits, networks
 94C05 Analytic circuit theory
 94C10 Switching theory, application of Boolean algebra; Boolean functions [See also 06E30]
 94C12 Fault detection; testing
 94C15 Applications of graph theory [See also 05Cxx, 68R10]
 94C30 Applications of design theory [See also 05Bxx]
 94C99 None of the above, but in this section
94D05 Fuzzy sets and logic (in connection with questions of Section 94)
 [See also 03B52, 03E72, 04A72, 28E10]





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